

## **DATA SUMMARY POSTING**

Station: Midwest Generation Joliet #9 Generating Station

Regulated Unit(s): Lincoln Stone Quarry (IEPA ID No. W1970450046-01)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 2<sup>nd</sup> quarter 2023 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit submitted October 31, 2021. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.





Table 2. Groundwater Turbidity - Midwest Generation, LLC, Joliet #9 Generating Station

Well ID	Date	Turbidity (NTU)
G45S	3/12/2021	0.87
	4/5/2021	0.33
	4/23/2021	0.54
	5/18/2021	0.36
	6/8/2021	0.64
	7/2/2021	1.4
	8/12/2021	0.36
	9/2/2021	0.46
	12/16/2021	0.89
	3/16/2022	0.98
	6/10/2022	0.03
	9/26/2022	0.29
	12/21/2022	2.04
	3/23/2023	1.13
6/30/2023	0.42	
T03S	3/15/2021	2.42
	4/1/2021	0.44
	4/22/2021	94
	5/17/2021	0.47
	6/7/2021	0.47
	7/1/2021	0.3
	8/12/2021	0.34
	9/1/2021	0.67
	12/9/2021	0.56
	3/14/2022	0.65
	6/13/2022	-0.1
	9/29/2022	0.53
	12/21/2022	2.03
	3/20/2023	1.19
6/30/2023	0.39	
R08S	3/12/2021	0.19
	4/1/2021	0.46
	4/23/2021	0.34
	5/18/2021	0.24
	6/8/2021	0.2
	7/1/2021	0.17
	8/12/2021	0.58
	9/2/2021	0.42
	12/14/2021	0.57
	3/11/2022	0.52
	6/7/2022	0.23
	9/19/2022	0.36
	12/19/2022	1.01
	3/22/2023	1.41
6/28/2023	0.34	
G20S	3/12/2021	0.32
	4/1/2021	0.29
	4/22/2021	0.14
	5/18/2021	0.63
	6/8/2021	0.2
	7/1/2021	0.29
	8/12/2021	0.32
	9/2/2021	0.48
	12/10/2021	1.28
	3/15/2022	0.46
	6/7/2022	0.5
	9/19/2022	2.47
	12/19/2022	2.61
	3/14/2023	0.39
6/28/2023	0.25	
G30S	3/12/2021	0.05
	4/2/2021	0.14
	4/23/2021	0.25
	5/18/2021	0.43
	6/8/2021	0.61
	7/2/2021	0.48
	8/13/2021	0.31
	9/2/2021	0.48
	12/15/2021	0.09
	3/15/2022	0.45
	6/10/2022	0.16
	9/28/2022	0.61
	12/19/2022	1.04
	3/17/2023	2.43
6/29/2023	0.74	

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Joliet #9 Generating Station

Well ID	Date	Turbidity (NTU)
R32S	3/12/2021	0.42
	4/5/2021	0.81
	4/23/2021	1.23
	5/18/2021	1.78
	6/8/2021	1.14
	7/2/2021	0.42
	8/13/2021	0.57
	9/30/2021	0.39
	12/15/2021	0.84
	3/16/2022	1.31
	6/10/2022	-0.1
	9/26/2022	0.66
	12/16/2022	1.53
	3/23/2023	1.59
6/29/2023	0.74	
G44S	3/15/2021	3.66
	4/5/2021	3.89
	4/23/2021	3.31
	5/18/2021	1.41
	6/8/2021	1.42
	7/2/2021	1.37
	8/12/2021	1.56
	9/2/2021	1.38
	12/16/2021	1.29
	3/15/2022	1.09
	6/9/2022	0.78
	9/26/2022	0.86
	12/21/2022	11.7
	3/15/2023	1.13
6/29/2023	3.04	
G46S	3/15/2021	18.4
	4/5/2021	106.5
	4/23/2021	59.2
	5/18/2021	181
	6/8/2021	3140
	7/1/2021	11.6
	8/12/2021	112
	9/2/2021	43.3
	12/15/2021	73.1
	3/11/2022	99.3
	6/9/2022	6.63
	9/26/2022	34.4
	12/20/2022	77.9
	3/22/2023	88.61
6/29/2023	32.30	
G47S	3/15/2021	0.12
	4/5/2021	0.1
	4/22/2021	0.16
	5/18/2021	0.14
	6/8/2021	0.53
	7/1/2021	0.3
	8/13/2021	0.18
	9/2/2021	0.68
	12/16/2021	0.59
	3/16/2022	0.26
	6/9/2022	-0.11
	9/26/2022	0.35
	12/21/2022	0.76
	3/23/2023	1.12
6/30/2023	0.76	
G48S	3/15/2021	0.47
	4/5/2021	0.14
	4/22/2021	0.22
	5/18/2021	0.44
	6/8/2021	0.24
	7/1/2021	0.91
	8/13/2021	0.23
	9/2/2021	0.63
	12/16/2021	0.62
	3/16/2022	0.31
	6/9/2022	0.22
	9/26/2022	0.96
	12/21/2022	3.73
	3/23/2023	3.13
6/30/2023	1.87	

 **ANALYTICAL REPORT****PREPARED FOR**

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

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**JOB DESCRIPTION**

Joliet #9 (Quarry) CCR 2Q23

**JOB NUMBER**

500-235842-1

# Eurofins Chicago

## Job Notes

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# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Job ID: 500-235842-1**

**Laboratory: Eurofins Chicago**

## Narrative

### Job Narrative 500-235842-1

#### Receipt

The samples were received on 6/27/2023 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.0° C, 1.4° C, 3.2° C, 3.7° C, 3.9° C and 4.4° C.

#### Metals

Methods 6020A, 6020B: The initial low level continuing calibration verification (ICVL) associated with batch 500-722538 recovered above the upper control limit for Beryllium. The samples associated with this ICVL were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020A: The closing low level continuing calibration verification (CCVL) was not run for samples 500-235842-A-1-A to A-12-A. The samples associated with batch 500-721484 were calibrated using the updated 6020A method (6020B), which does not required a closing CCVL. The initial low level calibration verification (ICVL) is within 80-120% recovery for Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Lead, Molybdenum, Selenium and Thallium; therefore, the data have been reported.

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

#### General Chemistry

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-721056 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-721686 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. When the gallery performs auto dilutions on MS/MSD, it can dilute out the spike and lower the recovery.

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

# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

#### Protocol References:

EPA = US Environmental Protection Agency

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

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

#### Laboratory References:

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

# Sample Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-235842-1	T13S	Water	06/27/23 09:31	06/27/23 15:00
500-235842-2	T12S	Water	06/27/23 11:17	06/27/23 15:00
500-235842-3	T09S	Water	06/27/23 12:12	06/27/23 15:00
500-235842-4	T06S	Water	06/27/23 13:33	06/27/23 15:00
500-235842-5	G20S	GW	06/28/23 09:03	06/28/23 15:37
500-235842-6	R08S	GW	06/28/23 12:22	06/28/23 15:37
500-235842-7	G33S	Water	06/28/23 13:43	06/28/23 15:37
500-235842-8	G31S	Water	06/28/23 14:39	06/28/23 15:37
500-235842-9	G30S	Water	06/29/23 08:41	06/29/23 14:15
500-235842-10	R32S	Water	06/29/23 10:39	06/29/23 14:15
500-235842-11	G44S	Water	06/29/23 11:37	06/29/23 14:15
500-235842-12	G46S	Water	06/29/23 13:09	06/29/23 14:15
500-235842-13	G45S	Water	06/30/23 08:50	06/30/23 14:53
500-235842-14	G48S	Water	06/30/23 09:39	06/30/23 14:53
500-235842-15	G47S	Water	06/30/23 10:48	06/30/23 14:53
500-235842-16	T03S	Water	06/30/23 11:54	06/30/23 14:53
500-235842-17	DUP	Water	06/30/23 11:54	06/30/23 14:53
500-235842-18	T02S	Water	06/30/23 13:21	06/30/23 14:53
500-235842-19	T08S	Water	07/03/23 09:08	07/03/23 14:15
500-235842-20	T01S	Water	07/03/23 10:39	07/03/23 14:15
500-235842-21	T05S	Water	07/03/23 12:31	07/03/23 14:15

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T13S**

**Lab Sample ID: 500-235842-1**

Date Collected: 06/27/23 09:31

Matrix: Water

Date Received: 06/27/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Arsenic</b>	<b>0.0047</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Barium</b>	<b>0.070</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:23	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Boron</b>	<b>0.40</b>		0.050		mg/L		06/30/23 09:01	07/19/23 15:18	1
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Calcium</b>	<b>100</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:23	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:23	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Lead</b>	<b>0.00053</b>		0.00050		mg/L		06/30/23 09:01	06/30/23 19:23	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		06/30/23 09:01	07/19/23 15:18	1
<b>Molybdenum</b>	<b>0.0057</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:23	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:23	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>620</b>		10		mg/L			06/28/23 21:30	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>42</b>		2.0		mg/L			06/28/23 13:52	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.24</b>		0.10		mg/L			06/28/23 17:33	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>130</b>		50		mg/L			06/29/23 09:27	10

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>18.33</b>				ft			06/27/23 09:31	1
<b>Depth to Water (ft from MP)</b>	<b>21.09</b>				ft			06/27/23 09:31	1
<b>Elevation of well (ft from MP)</b>	<b>525.33</b>				ft			06/27/23 09:31	1
<b>Field pH</b>	<b>7.98</b>				SU			06/27/23 09:31	1
<b>Field Temperature</b>	<b>59.0</b>				Degrees F			06/27/23 09:31	1
<b>Ground Water Elevation</b>	<b>504.24</b>				ft			06/27/23 09:31	1
<b>Specific Conductance</b>	<b>961</b>				umhos/cm			06/27/23 09:31	1
<b>Well bottom elevation</b>	<b>452.21</b>				ft			06/27/23 09:31	1
<b>Field Turbidity</b>	<b>15.90</b>				NTU			06/27/23 09:31	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T12S**

**Lab Sample ID: 500-235842-2**

Date Collected: 06/27/23 11:17

Matrix: Water

Date Received: 06/27/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Arsenic</b>	<b>0.0041</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Barium</b>	<b>0.071</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:27	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Boron</b>	<b>6.8</b>		1.0		mg/L		06/30/23 09:01	07/19/23 15:21	20
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:27	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:27	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Lead</b>	<b>0.0022</b>		0.00050		mg/L		06/30/23 09:01	06/30/23 19:27	1
<b>Lithium</b>	<b>0.15</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:25	1
<b>Molybdenum</b>	<b>0.59</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:27	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:27	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>860</b>		10		mg/L			06/28/23 21:33	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>83</b>		10		mg/L			06/28/23 14:19	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.16</b>		0.10		mg/L			06/28/23 17:47	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>380</b>		50		mg/L			06/29/23 09:28	10

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	72.07				ft			06/27/23 11:17	1
Depth to Water (ft from MP)	74.81				ft			06/27/23 11:17	1
Elevation of well (ft from MP)	578.74				ft			06/27/23 11:17	1
Field pH	7.82				SU			06/27/23 11:17	1
Field Temperature	57.0				Degrees F			06/27/23 11:17	1
Ground Water Elevation	503.93				ft			06/27/23 11:17	1
Specific Conductance	1224				umhos/cm			06/27/23 11:17	1
Well bottom elevation	452.24				ft			06/27/23 11:17	1
Field Turbidity	12.50				NTU			06/27/23 11:17	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T09S**

**Lab Sample ID: 500-235842-3**

Date Collected: 06/27/23 12:12

Matrix: Water

Date Received: 06/27/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Arsenic</b>	<b>0.0037</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Barium</b>	<b>0.065</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:30	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Boron</b>	<b>9.2</b>		1.0		mg/L		06/30/23 09:01	07/19/23 15:25	20
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:30	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:30	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Lead</b>	<b>0.00097</b>		0.00050		mg/L		06/30/23 09:01	06/30/23 19:30	1
<b>Lithium</b>	<b>0.10</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:29	1
<b>Molybdenum</b>	<b>0.99</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:30	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:30	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			06/28/23 21:35	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>48</b>		4.0		mg/L			06/28/23 13:53	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.33</b>		0.10		mg/L			06/28/23 18:02	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		100		mg/L			06/29/23 09:07	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>105.69</b>				ft			06/27/23 12:12	1
<b>Depth to Water (ft from MP)</b>	<b>108.09</b>				ft			06/27/23 12:12	1
<b>Elevation of well (ft from MP)</b>	<b>603.48</b>				ft			06/27/23 12:12	1
<b>Field pH</b>	<b>7.42</b>				SU			06/27/23 12:12	1
<b>Field Temperature</b>	<b>577</b>				Degrees F			06/27/23 12:12	1
<b>Ground Water Elevation</b>	<b>495.39</b>				ft			06/27/23 12:12	1
<b>Specific Conductance</b>	<b>1408</b>				umhos/cm			06/27/23 12:12	1
<b>Well bottom elevation</b>	<b>444.80</b>				ft			06/27/23 12:12	1
<b>Field Turbidity</b>	<b>32.10</b>				NTU			06/27/23 12:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T06S**

**Lab Sample ID: 500-235842-4**

Date Collected: 06/27/23 13:33

Matrix: Water

Date Received: 06/27/23 15:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Arsenic</b>	<b>0.0010</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Barium</b>	<b>0.032</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:34	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Boron</b>	<b>0.89</b>		0.050		mg/L		06/30/23 09:01	07/19/23 15:28	1
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Calcium</b>	<b>87</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:34	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:34	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:34	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:34	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		06/30/23 09:01	07/19/23 15:28	1
<b>Molybdenum</b>	<b>0.016</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:34	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:34	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>480</b>		10		mg/L			06/28/23 21:38	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>13</b>		2.0		mg/L			06/28/23 13:53	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.41</b>		0.10		mg/L			06/28/23 18:07	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>100</b>		25		mg/L			06/29/23 09:08	5

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>114.78</b>				ft			06/27/23 13:33	1
<b>Depth to Water (ft from MP)</b>	<b>117.08</b>				ft			06/27/23 13:33	1
<b>Elevation of well (ft from MP)</b>	<b>621.05</b>				ft			06/27/23 13:33	1
<b>Field pH</b>	<b>6.88</b>				SU			06/27/23 13:33	1
<b>Field Temperature</b>	<b>67.6</b>				Degrees F			06/27/23 13:33	1
<b>Ground Water Elevation</b>	<b>503.97</b>				ft			06/27/23 13:33	1
<b>Specific Conductance</b>	<b>800</b>				umhos/cm			06/27/23 13:33	1
<b>Well bottom elevation</b>	<b>447.94</b>				ft			06/27/23 13:33	1
<b>Field Turbidity</b>	<b>0.44</b>				NTU			06/27/23 13:33	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G20S**

**Lab Sample ID: 500-235842-5**

Date Collected: 06/28/23 09:03

Matrix: GW

Date Received: 06/28/23 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:44	1
Arsenic	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:44	1
<b>Barium</b>	<b>0.048</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:44	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:44	1
<b>Boron</b>	<b>1.4</b>		0.25		mg/L		06/30/23 09:01	07/19/23 15:32	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:44	1
<b>Calcium</b>	<b>65</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:44	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:44	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:44	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:44	1
<b>Lithium</b>	<b>0.042</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:32	1
<b>Molybdenum</b>	<b>0.012</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:44	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:44	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>380</b>		10		mg/L			06/28/23 22:34	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>16</b>		4.0		mg/L			06/29/23 12:26	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.78</b>		0.10		mg/L			06/30/23 14:31	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>57</b>		50		mg/L			06/29/23 09:09	10

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>50.82</b>				ft			06/28/23 09:03	1
<b>Depth to Water (ft from MP)</b>	<b>53.60</b>				ft			06/28/23 09:03	1
<b>Elevation of well (ft from MP)</b>	<b>580.87</b>				ft			06/28/23 09:03	1
<b>Field pH</b>	<b>7.20</b>				SU			06/28/23 09:03	1
<b>Field Temperature</b>	<b>65.5</b>				Degrees F			06/28/23 09:03	1
<b>Ground Water Elevation</b>	<b>527.27</b>				ft			06/28/23 09:03	1
<b>Specific Conductance</b>	<b>711</b>				umhos/cm			06/28/23 09:03	1
<b>Well bottom elevation</b>	<b>442.28</b>				ft			06/28/23 09:03	1
<b>Field Turbidity</b>	<b>0.25</b>				NTU			06/28/23 09:03	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-235842-6**

Date Collected: 06/28/23 12:22

Matrix: GW

Date Received: 06/28/23 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Arsenic</b>	<b>0.0013</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Barium</b>	<b>0.041</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:47	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Boron</b>	<b>8.9</b>		1.0		mg/L		06/30/23 09:01	07/19/23 15:35	20
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:47	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:47	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:47	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Lithium</b>	<b>0.16</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:36	1
<b>Molybdenum</b>	<b>0.38</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:47	1
<b>Selenium</b>	<b>0.013</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:47	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>750</b>		10		mg/L			06/28/23 22:37	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>77</b>		10		mg/L			06/29/23 12:26	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.13</b>		0.10		mg/L			06/30/23 14:44	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>400</b>		100		mg/L			06/29/23 09:09	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>67.74</b>				ft			06/28/23 12:22	1
<b>Depth to Water (ft from MP)</b>	<b>70.29</b>				ft			06/28/23 12:22	1
<b>Elevation of well (ft from MP)</b>	<b>578.66</b>				ft			06/28/23 12:22	1
<b>Field pH</b>	<b>7.87</b>				SU			06/28/23 12:22	1
<b>Field Temperature</b>	<b>59.4</b>				Degrees F			06/28/23 12:22	1
<b>Ground Water Elevation</b>	<b>508.37</b>				ft			06/28/23 12:22	1
<b>Specific Conductance</b>	<b>1069</b>				umhos/cm			06/28/23 12:22	1
<b>Well bottom elevation</b>	<b>453.08</b>				ft			06/28/23 12:22	1
<b>Field Turbidity</b>	<b>0.34</b>				NTU			06/28/23 12:22	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G33S**

**Lab Sample ID: 500-235842-7**

Date Collected: 06/28/23 13:43

Matrix: Water

Date Received: 06/28/23 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Arsenic</b>	<b>0.0021</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Barium</b>	<b>0.099</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:51	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Boron</b>	<b>0.97</b>		0.25		mg/L		06/30/23 09:01	07/19/23 15:46	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Calcium</b>	<b>64</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:51	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:51	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Lead</b>	<b>0.0027</b>		0.00050		mg/L		06/30/23 09:01	06/30/23 19:51	1
<b>Lithium</b>	<b>0.038</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:39	1
Molybdenum	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:51	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:51	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>420</b>		10		mg/L			06/28/23 22:39	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>13</b>		2.0		mg/L			06/29/23 12:26	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.59</b>		0.10		mg/L			06/30/23 14:49	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>73</b>	<b>F1</b>	10		mg/L			06/29/23 09:28	2

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>32.06</b>				ft			06/28/23 13:43	1
<b>Depth to Water (ft from MP)</b>	<b>33.79</b>				ft			06/28/23 13:43	1
<b>Elevation of well (ft from MP)</b>	<b>535.67</b>				ft			06/28/23 13:43	1
<b>Field pH</b>	<b>7.45</b>				SU			06/28/23 13:43	1
<b>Field Temperature</b>	<b>66.6</b>				Degrees F			06/28/23 13:43	1
<b>Ground Water Elevation</b>	<b>501.88</b>				ft			06/28/23 13:43	1
<b>Specific Conductance</b>	<b>742</b>				umhos/cm			06/28/23 13:43	1
<b>Well bottom elevation</b>	<b>452.72</b>				ft			06/28/23 13:43	1
<b>Field Turbidity</b>	<b>17.40</b>				NTU			06/28/23 13:43	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G31S**

**Lab Sample ID: 500-235842-8**

Date Collected: 06/28/23 14:39

Matrix: Water

Date Received: 06/28/23 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Arsenic</b>	<b>0.0031</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Barium</b>	<b>0.046</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:54	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Boron</b>	<b>3.2</b>		0.25		mg/L		06/30/23 09:01	07/19/23 15:49	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:54	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:54	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:54	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:54	1
<b>Lithium</b>	<b>0.083</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:43	1
<b>Molybdenum</b>	<b>0.61</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:54	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:54	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			06/28/23 22:42	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>160</b>		20		mg/L			06/29/23 12:26	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.25</b>		0.10		mg/L			06/30/23 14:54	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>420</b>		100		mg/L			06/29/23 09:28	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	26.72				ft			06/28/23 14:39	1
Depth to Water (ft from MP)	29.30				ft			06/28/23 14:39	1
Elevation of well (ft from MP)	535.73				ft			06/28/23 14:39	1
Field pH	7.27				SU			06/28/23 14:39	1
Field Temperature	60.8				Degrees F			06/28/23 14:39	1
Ground Water Elevation	506.43				ft			06/28/23 14:39	1
Specific Conductance	1700				umhos/cm			06/28/23 14:39	1
Well bottom elevation	453.36				ft			06/28/23 14:39	1
Field Turbidity	1.00				NTU			06/28/23 14:39	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G30S**

**Lab Sample ID: 500-235842-9**

Date Collected: 06/29/23 08:41

Matrix: Water

Date Received: 06/29/23 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Arsenic</b>	<b>0.0023</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Barium</b>	<b>0.045</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 19:58	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Boron</b>	<b>5.4</b>		0.50		mg/L		06/30/23 09:01	07/19/23 15:53	10
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Calcium</b>	<b>65</b>		0.20		mg/L		06/30/23 09:01	06/30/23 19:58	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 19:58	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 19:58	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 19:58	1
<b>Lithium</b>	<b>0.022</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:46	1
<b>Molybdenum</b>	<b>0.0088</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 19:58	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 19:58	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 19:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			06/30/23 12:19	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>200</b>		20		mg/L			07/05/23 13:06	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.95</b>		0.10		mg/L			06/30/23 14:59	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		100		mg/L			07/05/23 10:07	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>0.13</b>				ft			06/29/23 08:41	1
<b>Depth to Water (ft from MP)</b>	<b>2.44</b>				ft			06/29/23 08:41	1
<b>Elevation of well (ft from MP)</b>	<b>524.86</b>				ft			06/29/23 08:41	1
<b>Field pH</b>	<b>7.55</b>				SU			06/29/23 08:41	1
<b>Field Temperature</b>	<b>62.1</b>				Degrees F			06/29/23 08:41	1
<b>Ground Water Elevation</b>	<b>522.42</b>				ft			06/29/23 08:41	1
<b>Specific Conductance</b>	<b>1930</b>				umhos/cm			06/29/23 08:41	1
<b>Well bottom elevation</b>	<b>462.58</b>				ft			06/29/23 08:41	1
<b>Field Turbidity</b>	<b>0.74</b>				NTU			06/29/23 08:41	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: R32S**

**Lab Sample ID: 500-235842-10**

Date Collected: 06/29/23 10:39

Matrix: Water

Date Received: 06/29/23 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Arsenic</b>	<b>0.0016</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Barium</b>	<b>0.028</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 20:01	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Boron</b>	<b>1.4</b>		0.25		mg/L		06/30/23 09:01	07/19/23 15:56	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Calcium</b>	<b>100</b>		0.20		mg/L		06/30/23 09:01	06/30/23 20:01	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 20:01	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:01	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:01	1
<b>Lithium</b>	<b>0.035</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:50	1
<b>Molybdenum</b>	<b>0.092</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 20:01	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 20:01	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 20:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>770</b>		10		mg/L			06/30/23 12:22	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>47</b>		4.0		mg/L			07/05/23 13:07	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.29</b>		0.10		mg/L			06/30/23 15:03	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>380</b>		100		mg/L			07/05/23 10:08	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>20.32</b>				ft			06/29/23 10:39	1
<b>Depth to Water (ft from MP)</b>	<b>22.35</b>				ft			06/29/23 10:39	1
<b>Elevation of well (ft from MP)</b>	<b>536.97</b>				ft			06/29/23 10:39	1
<b>Field pH</b>	<b>7.07</b>				SU			06/29/23 10:39	1
<b>Field Temperature</b>	<b>55.4</b>				Degrees F			06/29/23 10:39	1
<b>Ground Water Elevation</b>	<b>514.62</b>				ft			06/29/23 10:39	1
<b>Specific Conductance</b>	<b>815</b>				umhos/cm			06/29/23 10:39	1
<b>Well bottom elevation</b>	<b>457.84</b>				ft			06/29/23 10:39	1
<b>Field Turbidity</b>	<b>0.74</b>				NTU			06/29/23 10:39	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-235842-11**

Date Collected: 06/29/23 11:37

Matrix: Water

Date Received: 06/29/23 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 20:05	1
Arsenic	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:05	1
<b>Barium</b>	<b>0.069</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 20:05	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:05	1
<b>Boron</b>	<b>1.8</b>		0.25		mg/L		06/30/23 09:01	07/19/23 16:00	5
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:05	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		06/30/23 09:01	06/30/23 20:05	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 20:05	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:05	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:05	1
<b>Lithium</b>	<b>0.026</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:53	1
<b>Molybdenum</b>	<b>0.24</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 20:05	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 20:05	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 20:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>680</b>		10		mg/L			06/30/23 12:26	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>64</b>		4.0		mg/L			07/05/23 13:07	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.21</b>		0.10		mg/L			06/30/23 15:18	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		50		mg/L			07/05/23 09:33	10

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>80.94</b>				ft			06/29/23 11:37	1
<b>Depth to Water (ft from MP)</b>	<b>83.12</b>				ft			06/29/23 11:37	1
<b>Elevation of well (ft from MP)</b>	<b>586.68</b>				ft			06/29/23 11:37	1
<b>Field pH</b>	<b>7.00</b>				SU			06/29/23 11:37	1
<b>Field Temperature</b>	<b>61.2</b>				Degrees F			06/29/23 11:37	1
<b>Ground Water Elevation</b>	<b>503.56</b>				ft			06/29/23 11:37	1
<b>Specific Conductance</b>	<b>1165</b>				umhos/cm			06/29/23 11:37	1
<b>Well bottom elevation</b>	<b>455.11</b>				ft			06/29/23 11:37	1
<b>Field Turbidity</b>	<b>3.04</b>				NTU			06/29/23 11:37	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G46S**

**Lab Sample ID: 500-235842-12**

Date Collected: 06/29/23 13:09

Matrix: Water

Date Received: 06/29/23 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Arsenic</b>	<b>0.044</b>		0.0010		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Barium</b>	<b>0.056</b>		0.0025		mg/L		06/30/23 09:01	06/30/23 20:08	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Boron</b>	<b>8.6</b>		1.0		mg/L		06/30/23 09:01	07/19/23 16:04	20
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		06/30/23 09:01	06/30/23 20:08	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 20:08	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 20:08	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 20:08	1
<b>Lithium</b>	<b>0.17</b>		0.010		mg/L		06/30/23 09:01	07/19/23 16:57	1
<b>Molybdenum</b>	<b>1.0</b>		0.0050		mg/L		06/30/23 09:01	06/30/23 20:08	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 20:08	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>890</b>		10		mg/L			06/30/23 12:29	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>69</b>		4.0		mg/L			07/05/23 13:07	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.23</b>		0.10		mg/L			06/30/23 15:23	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>440</b>		100		mg/L			07/05/23 09:34	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>101.56</b>				ft			06/29/23 13:09	1
<b>Depth to Water (ft from MP)</b>	<b>104.26</b>				ft			06/29/23 13:09	1
<b>Elevation of well (ft from MP)</b>	<b>601.41</b>				ft			06/29/23 13:09	1
<b>Field pH</b>	<b>7.50</b>				SU			06/29/23 13:09	1
<b>Field Temperature</b>	<b>59.4</b>				Degrees F			06/29/23 13:09	1
<b>Ground Water Elevation</b>	<b>497.15</b>				ft			06/29/23 13:09	1
<b>Specific Conductance</b>	<b>1342</b>				umhos/cm			06/29/23 13:09	1
<b>Well bottom elevation</b>	<b>453.62</b>				ft			06/29/23 13:09	1
<b>Field Turbidity</b>	<b>32.30</b>				NTU			06/29/23 13:09	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-235842-13**

Date Collected: 06/30/23 08:50

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Arsenic</b>	<b>0.0094</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Barium</b>	<b>0.038</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:37	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Boron</b>	<b>0.44</b>		0.050		mg/L		07/06/23 08:24	07/13/23 18:04	1
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Calcium</b>	<b>89</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:37	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:37	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:37	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Lithium</b>	<b>0.031</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:37	1
<b>Molybdenum</b>	<b>0.012</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:37	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:37	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>610</b>		10		mg/L			07/06/23 10:59	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		20		mg/L			07/05/23 13:08	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.36</b>		0.10		mg/L			07/06/23 15:53	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>150</b>		50		mg/L			07/05/23 09:34	10

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	63.36				ft			06/30/23 08:50	1
Depth to Water (ft from MP)	66.33				ft			06/30/23 08:50	1
Elevation of well (ft from MP)	603.80				ft			06/30/23 08:50	1
Field pH	7.23				SU			06/30/23 08:50	1
Field Temperature	58.5				Degrees F			06/30/23 08:50	1
Ground Water Elevation	537.47				ft			06/30/23 08:50	1
Specific Conductance	930				umhos/cm			06/30/23 08:50	1
Well bottom elevation	471.05				ft			06/30/23 08:50	1
Field Turbidity	0.42				NTU			06/30/23 08:50	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-235842-14**

Date Collected: 06/30/23 09:39

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Arsenic</b>	<b>0.011</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Barium</b>	<b>0.021</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:40	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Boron</b>	<b>6.4</b>		1.0		mg/L		07/06/23 08:24	07/13/23 18:07	20
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Calcium</b>	<b>39</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:40	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:40	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:40	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Lithium</b>	<b>0.028</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:40	1
<b>Molybdenum</b>	<b>0.32</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:40	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:40	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:05	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>850</b>		10		mg/L			07/06/23 11:20	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>91</b>		10		mg/L			07/05/23 13:08	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.89</b>		0.10		mg/L			07/06/23 16:17	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>380</b>		100		mg/L			07/05/23 09:34	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>102.08</b>				ft			06/30/23 09:39	1
<b>Depth to Water (ft from MP)</b>	<b>104.53</b>				ft			06/30/23 09:39	1
<b>Elevation of well (ft from MP)</b>	<b>620.77</b>				ft			06/30/23 09:39	1
<b>Field pH</b>	<b>8.03</b>				SU			06/30/23 09:39	1
<b>Field Temperature</b>	<b>62.6</b>				Degrees F			06/30/23 09:39	1
<b>Ground Water Elevation</b>	<b>516.24</b>				ft			06/30/23 09:39	1
<b>Specific Conductance</b>	<b>1455</b>				umhos/cm			06/30/23 09:39	1
<b>Well bottom elevation</b>	<b>468.32</b>				ft			06/30/23 09:39	1
<b>Field Turbidity</b>	<b>1.87</b>				NTU			06/30/23 09:39	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G47S**

**Lab Sample ID: 500-235842-15**

Date Collected: 06/30/23 10:48

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Arsenic</b>	<b>0.038</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Barium</b>	<b>0.012</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:44	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Boron</b>	<b>7.7</b>		1.0		mg/L		07/06/23 08:24	07/13/23 18:11	20
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Calcium</b>	<b>12</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:44	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:44	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:44	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Lithium</b>	<b>0.052</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Molybdenum</b>	<b>0.55</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:44	1
<b>Selenium</b>	<b>0.0033</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:44	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00058</b>		0.00020		mg/L		07/14/23 14:35	07/17/23 12:11	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>970</b>		10		mg/L			07/06/23 11:23	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>96</b>		10		mg/L			07/05/23 13:08	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.64</b>		0.10		mg/L			07/06/23 16:21	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>470</b>		100		mg/L			07/05/23 09:35	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>92.55</b>				ft			06/30/23 10:48	1
<b>Depth to Water (ft from MP)</b>	<b>95.05</b>				ft			06/30/23 10:48	1
<b>Elevation of well (ft from MP)</b>	<b>612.23</b>				ft			06/30/23 10:48	1
<b>Field pH</b>	<b>8.30</b>				SU			06/30/23 10:48	1
<b>Field Temperature</b>	<b>56.8</b>				Degrees F			06/30/23 10:48	1
<b>Ground Water Elevation</b>	<b>517.18</b>				ft			06/30/23 10:48	1
<b>Specific Conductance</b>	<b>1630</b>				umhos/cm			06/30/23 10:48	1
<b>Well bottom elevation</b>	<b>459.84</b>				ft			06/30/23 10:48	1
<b>Field Turbidity</b>	<b>0.76</b>				NTU			06/30/23 10:48	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T03S**

**Lab Sample ID: 500-235842-16**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Arsenic</b>	<b>0.0021</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Barium</b>	<b>0.077</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:47	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Boron</b>	<b>2.1</b>		0.25		mg/L		07/06/23 08:24	07/13/23 18:14	5
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:47	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:47	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:47	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Lithium</b>	<b>0.031</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:47	1
<b>Molybdenum</b>	<b>0.16</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:47	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:47	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>850</b>		10		mg/L			07/06/23 11:26	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		10		mg/L			07/05/23 13:09	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>		0.10		mg/L			07/06/23 16:26	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>230</b>		50		mg/L			07/05/23 09:35	10

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.19				ft			06/30/23 11:54	1
Depth to Water (ft from MP)	140.27				ft			06/30/23 11:54	1
Elevation of well (ft from MP)	629.85				ft			06/30/23 11:54	1
Field pH	7.40				SU			06/30/23 11:54	1
Field Temperature	58.3				Degrees F			06/30/23 11:54	1
Ground Water Elevation	489.58				ft			06/30/23 11:54	1
Specific Conductance	1331				umhos/cm			06/30/23 11:54	1
Well bottom elevation	456.70				ft			06/30/23 11:54	1
Field Turbidity	0.39				NTU			06/30/23 11:54	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: DUP**

**Lab Sample ID: 500-235842-17**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Arsenic</b>	<b>0.0018</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Barium</b>	<b>0.086</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:50	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Boron</b>	<b>2.0</b>		0.25		mg/L		07/06/23 08:24	07/13/23 18:18	5
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:50	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:50	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 22:50	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Lithium</b>	<b>0.030</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:50	1
<b>Molybdenum</b>	<b>0.17</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:50	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:50	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>860</b>		10		mg/L			07/06/23 11:28	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		10		mg/L			07/05/23 13:09	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.20</b>		0.10		mg/L			07/06/23 16:31	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>210</b>		100		mg/L			07/05/23 09:35	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	137.19				ft			06/30/23 11:54	1
Depth to Water (ft from MP)	140.27				ft			06/30/23 11:54	1
Elevation of well (ft from MP)	629.85				ft			06/30/23 11:54	1
Field pH	7.40				SU			06/30/23 11:54	1
Field Temperature	58.3				Degrees F			06/30/23 11:54	1
Ground Water Elevation	489.58				ft			06/30/23 11:54	1
Specific Conductance	1331				umhos/cm			06/30/23 11:54	1
Well bottom elevation	456.70				ft			06/30/23 11:54	1
Field Turbidity	0.39				NTU			06/30/23 11:54	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T02S**

**Lab Sample ID: 500-235842-18**

Date Collected: 06/30/23 13:21

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Arsenic</b>	<b>0.0081</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Barium</b>	<b>0.11</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 22:54	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Boron</b>	<b>4.8</b>		0.50		mg/L		07/06/23 08:24	07/13/23 18:21	10
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Calcium</b>	<b>88</b>		0.20		mg/L		07/06/23 08:24	07/10/23 22:54	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Cobalt</b>	<b>0.0033</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Lead</b>	<b>0.0043</b>		0.00050		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Lithium</b>	<b>0.034</b>		0.010		mg/L		07/06/23 08:24	07/10/23 22:54	1
<b>Molybdenum</b>	<b>0.37</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 22:54	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 22:54	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 22:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>870</b>		10		mg/L			07/06/23 11:31	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>120</b>		10		mg/L			07/05/23 13:10	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.34</b>		0.10		mg/L			07/06/23 16:36	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>320</b>		50		mg/L			07/05/23 09:36	10

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
<b>Depth to water from land surface</b>	<b>134.12</b>				ft			06/30/23 13:21	1
<b>Depth to Water (ft from MP)</b>	<b>136.45</b>				ft			06/30/23 13:21	1
<b>Elevation of well (ft from MP)</b>	<b>626.12</b>				ft			06/30/23 13:21	1
<b>Field pH</b>	<b>8.01</b>				SU			06/30/23 13:21	1
<b>Field Temperature</b>	<b>72.3</b>				Degrees F			06/30/23 13:21	1
<b>Ground Water Elevation</b>	<b>489.67</b>				ft			06/30/23 13:21	1
<b>Specific Conductance</b>	<b>1418</b>				umhos/cm			06/30/23 13:21	1
<b>Well bottom elevation</b>	<b>453.40</b>				ft			06/30/23 13:21	1
<b>Field Turbidity</b>	<b>32.70</b>				NTU			06/30/23 13:21	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T08S**

**Lab Sample ID: 500-235842-19**

Date Collected: 07/03/23 09:08

Matrix: Water

Date Received: 07/03/23 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Arsenic</b>	<b>0.020</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Barium</b>	<b>0.029</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 23:04	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Boron</b>	<b>4.5</b>		1.0		mg/L		07/06/23 08:24	07/13/23 18:25	20
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Calcium</b>	<b>23</b>		0.20		mg/L		07/06/23 08:24	07/10/23 23:04	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 23:04	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 23:04	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Lithium</b>	<b>0.040</b>		0.010		mg/L		07/06/23 08:24	07/10/23 23:04	1
<b>Molybdenum</b>	<b>0.80</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 23:04	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 23:04	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 23:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>930</b>		10		mg/L			07/06/23 11:34	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>89</b>		10		mg/L			07/05/23 13:10	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.68</b>		0.10		mg/L			07/06/23 16:41	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>480</b>		100		mg/L			07/05/23 09:36	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	128.52				ft			07/03/23 09:08	1
Depth to Water (ft from MP)	130.90				ft			07/03/23 09:08	1
Elevation of well (ft from MP)	627.55				ft			07/03/23 09:08	1
Field pH	8.90				SU			07/03/23 09:08	1
Field Temperature	60.1				Degrees F			07/03/23 09:08	1
Ground Water Elevation	496.65				ft			07/03/23 09:08	1
Specific Conductance	1520				umhos/cm			07/03/23 09:08	1
Well bottom elevation	447.38				ft			07/03/23 09:08	1
Field Turbidity	1.21				NTU			07/03/23 09:08	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T01S**

**Lab Sample ID: 500-235842-20**

Date Collected: 07/03/23 10:39

Matrix: Water

Date Received: 07/03/23 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Arsenic</b>	<b>0.0086</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Barium</b>	<b>0.044</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 23:08	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Boron</b>	<b>4.7</b>		0.50		mg/L		07/06/23 08:24	07/13/23 18:28	10
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Calcium</b>	<b>49</b>		0.20		mg/L		07/06/23 08:24	07/10/23 23:08	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Cobalt</b>	<b>0.0014</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Lead</b>	<b>0.0011</b>		0.00050		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Lithium</b>	<b>0.012</b>		0.010		mg/L		07/06/23 08:24	07/10/23 23:08	1
<b>Molybdenum</b>	<b>0.29</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 23:08	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 23:08	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 23:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 12:22	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>890</b>		10		mg/L			07/06/23 11:36	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>98</b>		10		mg/L			07/05/23 13:10	5
<b>Fluoride (SM 4500 F C)</b>	<b>1.1</b>		0.10		mg/L			07/06/23 16:45	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>410</b>		100		mg/L			07/05/23 09:36	20

### Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	123.54				ft			07/03/23 10:39	1
Depth to Water (ft from MP)	126.02				ft			07/03/23 10:39	1
Elevation of well (ft from MP)	621.84				ft			07/03/23 10:39	1
Field pH	7.90				SU			07/03/23 10:39	1
Field Temperature	67.8				Degrees F			07/03/23 10:39	1
Ground Water Elevation	495.82				ft			07/03/23 10:39	1
Specific Conductance	1435				umhos/cm			07/03/23 10:39	1
Well bottom elevation	451.46				ft			07/03/23 10:39	1
Field Turbidity	46.70				NTU			07/03/23 10:39	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T05S**

**Lab Sample ID: 500-235842-21**

Date Collected: 07/03/23 12:31

Matrix: Water

Date Received: 07/03/23 14:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Arsenic</b>	<b>0.12</b>		0.0010		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Barium</b>	<b>0.0095</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 23:11	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Boron</b>	<b>13</b>		2.5		mg/L		07/06/23 08:24	07/13/23 18:32	50
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Calcium</b>	<b>1.5</b>		0.20		mg/L		07/06/23 08:24	07/10/23 23:11	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 23:11	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 23:11	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Lithium</b>	<b>0.024</b>		0.010		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Molybdenum</b>	<b>0.98</b>		0.0050		mg/L		07/06/23 08:24	07/10/23 23:11	1
<b>Selenium</b>	<b>0.0058</b>		0.0025		mg/L		07/06/23 08:24	07/10/23 23:11	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 23:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/17/23 10:15	07/18/23 07:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1500</b>		10		mg/L			07/06/23 11:39	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>140</b>		20		mg/L			07/05/23 13:27	10
<b>Fluoride (SM 4500 F C)</b>	<b>1.7</b>		0.10		mg/L			07/06/23 16:49	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>610</b>		100		mg/L			07/05/23 11:08	20

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

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	123.89				ft			07/03/23 12:31	1
Depth to Water (ft from MP)	126.29				ft			07/03/23 12:31	1
Elevation of well (ft from MP)	623.50				ft			07/03/23 12:31	1
Field pH	10.06				SU			07/03/23 12:31	1
Field Temperature	77.5				Degrees F			07/03/23 12:31	1
Ground Water Elevation	497.21				ft			07/03/23 12:31	1
Specific Conductance	2420				umhos/cm			07/03/23 12:31	1
Well bottom elevation	448.35				ft			07/03/23 12:31	1
Field Turbidity	1.69				NTU			07/03/23 12:31	1



# Definitions/Glossary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

### General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

## Glossary

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

# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Metals

### Prep Batch: 721251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total Recoverable	Water	3005A	
500-235842-2	T12S	Total Recoverable	Water	3005A	
500-235842-3	T09S	Total Recoverable	Water	3005A	
500-235842-4	T06S	Total Recoverable	Water	3005A	
500-235842-5	G20S	Total Recoverable	GW	3005A	
500-235842-6	R08S	Total Recoverable	GW	3005A	
500-235842-7	G33S	Total Recoverable	Water	3005A	
500-235842-8	G31S	Total Recoverable	Water	3005A	
500-235842-9	G30S	Total Recoverable	Water	3005A	
500-235842-10	R32S	Total Recoverable	Water	3005A	
500-235842-11	G44S	Total Recoverable	Water	3005A	
500-235842-12	G46S	Total Recoverable	Water	3005A	
MB 500-721251/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-721251/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 721484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total Recoverable	Water	6020A	721251
500-235842-2	T12S	Total Recoverable	Water	6020A	721251
500-235842-3	T09S	Total Recoverable	Water	6020A	721251
500-235842-4	T06S	Total Recoverable	Water	6020A	721251
500-235842-5	G20S	Total Recoverable	GW	6020A	721251
500-235842-6	R08S	Total Recoverable	GW	6020A	721251
500-235842-7	G33S	Total Recoverable	Water	6020A	721251
500-235842-8	G31S	Total Recoverable	Water	6020A	721251
500-235842-9	G30S	Total Recoverable	Water	6020A	721251
500-235842-10	R32S	Total Recoverable	Water	6020A	721251
500-235842-11	G44S	Total Recoverable	Water	6020A	721251
500-235842-12	G46S	Total Recoverable	Water	6020A	721251
MB 500-721251/1-A	Method Blank	Total Recoverable	Water	6020A	721251
LCS 500-721251/2-A	Lab Control Sample	Total Recoverable	Water	6020A	721251

### Prep Batch: 721843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total Recoverable	Water	3005A	
500-235842-14	G48S	Total Recoverable	Water	3005A	
500-235842-15	G47S	Total Recoverable	Water	3005A	
500-235842-16	T03S	Total Recoverable	Water	3005A	
500-235842-17	DUP	Total Recoverable	Water	3005A	
500-235842-18	T02S	Total Recoverable	Water	3005A	
500-235842-19	T08S	Total Recoverable	Water	3005A	
500-235842-20	T01S	Total Recoverable	Water	3005A	
500-235842-21	T05S	Total Recoverable	Water	3005A	
MB 500-721843/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-721843/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 722538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total Recoverable	Water	6020A	721843
500-235842-14	G48S	Total Recoverable	Water	6020A	721843
500-235842-15	G47S	Total Recoverable	Water	6020A	721843

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Metals (Continued)

### Analysis Batch: 722538 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-16	T03S	Total Recoverable	Water	6020A	721843
500-235842-17	DUP	Total Recoverable	Water	6020A	721843
500-235842-18	T02S	Total Recoverable	Water	6020A	721843
500-235842-19	T08S	Total Recoverable	Water	6020A	721843
500-235842-20	T01S	Total Recoverable	Water	6020A	721843
500-235842-21	T05S	Total Recoverable	Water	6020A	721843
MB 500-721843/1-A	Method Blank	Total Recoverable	Water	6020A	721843
LCS 500-721843/2-A	Lab Control Sample	Total Recoverable	Water	6020A	721843

### Analysis Batch: 723138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total Recoverable	Water	6020A	721843
500-235842-14	G48S	Total Recoverable	Water	6020A	721843
500-235842-15	G47S	Total Recoverable	Water	6020A	721843
500-235842-16	T03S	Total Recoverable	Water	6020A	721843
500-235842-17	DUP	Total Recoverable	Water	6020A	721843
500-235842-18	T02S	Total Recoverable	Water	6020A	721843
500-235842-19	T08S	Total Recoverable	Water	6020A	721843
500-235842-20	T01S	Total Recoverable	Water	6020A	721843
500-235842-21	T05S	Total Recoverable	Water	6020A	721843

### Prep Batch: 723161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	7470A	
500-235842-2	T12S	Total/NA	Water	7470A	
500-235842-3	T09S	Total/NA	Water	7470A	
500-235842-4	T06S	Total/NA	Water	7470A	
500-235842-5	G20S	Total/NA	GW	7470A	
500-235842-6	R08S	Total/NA	GW	7470A	
500-235842-7	G33S	Total/NA	Water	7470A	
500-235842-8	G31S	Total/NA	Water	7470A	
500-235842-9	G30S	Total/NA	Water	7470A	
500-235842-10	R32S	Total/NA	Water	7470A	
500-235842-11	G44S	Total/NA	Water	7470A	
500-235842-12	G46S	Total/NA	Water	7470A	
500-235842-13	G45S	Total/NA	Water	7470A	
500-235842-14	G48S	Total/NA	Water	7470A	
500-235842-15	G47S	Total/NA	Water	7470A	
500-235842-16	T03S	Total/NA	Water	7470A	
500-235842-17	DUP	Total/NA	Water	7470A	
500-235842-18	T02S	Total/NA	Water	7470A	
500-235842-19	T08S	Total/NA	Water	7470A	
500-235842-20	T01S	Total/NA	Water	7470A	
MB 500-723161/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-723161/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-235842-10 MS	R32S	Total/NA	Water	7470A	
500-235842-10 MSD	R32S	Total/NA	Water	7470A	
500-235842-10 DU	R32S	Total/NA	Water	7470A	

# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Metals

### Prep Batch: 723321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-21	T05S	Total/NA	Water	7470A	
MB 500-723321/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-723321/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 723380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	7470A	723161
500-235842-2	T12S	Total/NA	Water	7470A	723161
500-235842-3	T09S	Total/NA	Water	7470A	723161
500-235842-4	T06S	Total/NA	Water	7470A	723161
500-235842-5	G20S	Total/NA	GW	7470A	723161
500-235842-6	R08S	Total/NA	GW	7470A	723161
500-235842-7	G33S	Total/NA	Water	7470A	723161
500-235842-8	G31S	Total/NA	Water	7470A	723161
500-235842-9	G30S	Total/NA	Water	7470A	723161
500-235842-10	R32S	Total/NA	Water	7470A	723161
500-235842-11	G44S	Total/NA	Water	7470A	723161
500-235842-12	G46S	Total/NA	Water	7470A	723161
500-235842-13	G45S	Total/NA	Water	7470A	723161
500-235842-14	G48S	Total/NA	Water	7470A	723161
500-235842-15	G47S	Total/NA	Water	7470A	723161
500-235842-16	T03S	Total/NA	Water	7470A	723161
500-235842-17	DUP	Total/NA	Water	7470A	723161
500-235842-18	T02S	Total/NA	Water	7470A	723161
500-235842-19	T08S	Total/NA	Water	7470A	723161
500-235842-20	T01S	Total/NA	Water	7470A	723161
MB 500-723161/12-A	Method Blank	Total/NA	Water	7470A	723161
LCS 500-723161/13-A	Lab Control Sample	Total/NA	Water	7470A	723161
500-235842-10 MS	R32S	Total/NA	Water	7470A	723161
500-235842-10 MSD	R32S	Total/NA	Water	7470A	723161
500-235842-10 DU	R32S	Total/NA	Water	7470A	723161

### Analysis Batch: 723528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-21	T05S	Total/NA	Water	7470A	723321
MB 500-723321/12-A	Method Blank	Total/NA	Water	7470A	723321
LCS 500-723321/13-A	Lab Control Sample	Total/NA	Water	7470A	723321

### Analysis Batch: 723834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total Recoverable	Water	6020A	721251
500-235842-2	T12S	Total Recoverable	Water	6020A	721251
500-235842-2	T12S	Total Recoverable	Water	6020A	721251
500-235842-3	T09S	Total Recoverable	Water	6020A	721251
500-235842-3	T09S	Total Recoverable	Water	6020A	721251
500-235842-4	T06S	Total Recoverable	Water	6020A	721251
500-235842-5	G20S	Total Recoverable	GW	6020A	721251
500-235842-5	G20S	Total Recoverable	GW	6020A	721251
500-235842-6	R08S	Total Recoverable	GW	6020A	721251
500-235842-6	R08S	Total Recoverable	GW	6020A	721251
500-235842-7	G33S	Total Recoverable	Water	6020A	721251

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Metals (Continued)

### Analysis Batch: 723834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-7	G33S	Total Recoverable	Water	6020A	721251
500-235842-8	G31S	Total Recoverable	Water	6020A	721251
500-235842-8	G31S	Total Recoverable	Water	6020A	721251
500-235842-9	G30S	Total Recoverable	Water	6020A	721251
500-235842-9	G30S	Total Recoverable	Water	6020A	721251
500-235842-10	R32S	Total Recoverable	Water	6020A	721251
500-235842-10	R32S	Total Recoverable	Water	6020A	721251
500-235842-11	G44S	Total Recoverable	Water	6020A	721251
500-235842-11	G44S	Total Recoverable	Water	6020A	721251
500-235842-12	G46S	Total Recoverable	Water	6020A	721251
500-235842-12	G46S	Total Recoverable	Water	6020A	721251
MB 500-721251/1-A	Method Blank	Total Recoverable	Water	6020A	721251
LCS 500-721251/2-A	Lab Control Sample	Total Recoverable	Water	6020A	721251

## General Chemistry

### Analysis Batch: 720896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	SM 4500 CI- E	
500-235842-2	T12S	Total/NA	Water	SM 4500 CI- E	
500-235842-3	T09S	Total/NA	Water	SM 4500 CI- E	
500-235842-4	T06S	Total/NA	Water	SM 4500 CI- E	
MB 500-720896/112	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-720896/113	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-235842-4 MS	T06S	Total/NA	Water	SM 4500 CI- E	
500-235842-4 MSD	T06S	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 720956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	SM 2540C	
500-235842-2	T12S	Total/NA	Water	SM 2540C	
500-235842-3	T09S	Total/NA	Water	SM 2540C	
500-235842-4	T06S	Total/NA	Water	SM 2540C	
MB 500-720956/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-720956/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 720957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	SM 2540C	
500-235842-6	R08S	Total/NA	GW	SM 2540C	
500-235842-7	G33S	Total/NA	Water	SM 2540C	
500-235842-8	G31S	Total/NA	Water	SM 2540C	
MB 500-720957/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-720957/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 720973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	SM 4500 F C	
500-235842-2	T12S	Total/NA	Water	SM 4500 F C	
500-235842-3	T09S	Total/NA	Water	SM 4500 F C	
500-235842-4	T06S	Total/NA	Water	SM 4500 F C	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## General Chemistry (Continued)

### Analysis Batch: 720973 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-720973/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-720973/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-235842-1 MS	T13S	Total/NA	Water	SM 4500 F C	
500-235842-1 MSD	T13S	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 721056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	SM 4500 SO4 E	
500-235842-2	T12S	Total/NA	Water	SM 4500 SO4 E	
500-235842-3	T09S	Total/NA	Water	SM 4500 SO4 E	
500-235842-4	T06S	Total/NA	Water	SM 4500 SO4 E	
500-235842-5	G20S	Total/NA	GW	SM 4500 SO4 E	
500-235842-6	R08S	Total/NA	GW	SM 4500 SO4 E	
500-235842-7	G33S	Total/NA	Water	SM 4500 SO4 E	
500-235842-8	G31S	Total/NA	Water	SM 4500 SO4 E	
MB 500-721056/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-721056/43	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-721056/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-721056/44	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-235842-7 MS	G33S	Total/NA	Water	SM 4500 SO4 E	
500-235842-7 MSD	G33S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 721120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	SM 4500 CI- E	
500-235842-6	R08S	Total/NA	GW	SM 4500 CI- E	
500-235842-7	G33S	Total/NA	Water	SM 4500 CI- E	
500-235842-8	G31S	Total/NA	Water	SM 4500 CI- E	
MB 500-721120/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-721120/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 721291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	SM 2540C	
500-235842-10	R32S	Total/NA	Water	SM 2540C	
500-235842-11	G44S	Total/NA	Water	SM 2540C	
500-235842-12	G46S	Total/NA	Water	SM 2540C	
MB 500-721291/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-721291/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 721581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	SM 4500 F C	
500-235842-6	R08S	Total/NA	GW	SM 4500 F C	
500-235842-7	G33S	Total/NA	Water	SM 4500 F C	
500-235842-8	G31S	Total/NA	Water	SM 4500 F C	
500-235842-9	G30S	Total/NA	Water	SM 4500 F C	
500-235842-10	R32S	Total/NA	Water	SM 4500 F C	
500-235842-11	G44S	Total/NA	Water	SM 4500 F C	
500-235842-12	G46S	Total/NA	Water	SM 4500 F C	
MB 500-721581/3	Method Blank	Total/NA	Water	SM 4500 F C	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## General Chemistry (Continued)

### Analysis Batch: 721581 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-721581/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-235842-5 MS	G20S	Total/NA	GW	SM 4500 F C	
500-235842-5 MSD	G20S	Total/NA	GW	SM 4500 F C	

### Analysis Batch: 721686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	SM 4500 SO4 E	
500-235842-10	R32S	Total/NA	Water	SM 4500 SO4 E	
500-235842-11	G44S	Total/NA	Water	SM 4500 SO4 E	
500-235842-12	G46S	Total/NA	Water	SM 4500 SO4 E	
500-235842-13	G45S	Total/NA	Water	SM 4500 SO4 E	
500-235842-14	G48S	Total/NA	Water	SM 4500 SO4 E	
500-235842-15	G47S	Total/NA	Water	SM 4500 SO4 E	
500-235842-16	T03S	Total/NA	Water	SM 4500 SO4 E	
500-235842-17	DUP	Total/NA	Water	SM 4500 SO4 E	
500-235842-18	T02S	Total/NA	Water	SM 4500 SO4 E	
500-235842-19	T08S	Total/NA	Water	SM 4500 SO4 E	
500-235842-20	T01S	Total/NA	Water	SM 4500 SO4 E	
500-235842-21	T05S	Total/NA	Water	SM 4500 SO4 E	
MB 500-721686/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-721686/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-235842-21 MS	T05S	Total/NA	Water	SM 4500 SO4 E	
500-235842-21 MSD	T05S	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 721741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	SM 4500 Cl- E	
500-235842-10	R32S	Total/NA	Water	SM 4500 Cl- E	
500-235842-11	G44S	Total/NA	Water	SM 4500 Cl- E	
500-235842-12	G46S	Total/NA	Water	SM 4500 Cl- E	
500-235842-13	G45S	Total/NA	Water	SM 4500 Cl- E	
500-235842-14	G48S	Total/NA	Water	SM 4500 Cl- E	
500-235842-15	G47S	Total/NA	Water	SM 4500 Cl- E	
500-235842-16	T03S	Total/NA	Water	SM 4500 Cl- E	
500-235842-17	DUP	Total/NA	Water	SM 4500 Cl- E	
500-235842-18	T02S	Total/NA	Water	SM 4500 Cl- E	
500-235842-19	T08S	Total/NA	Water	SM 4500 Cl- E	
500-235842-20	T01S	Total/NA	Water	SM 4500 Cl- E	
500-235842-21	T05S	Total/NA	Water	SM 4500 Cl- E	
MB 500-721741/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-721741/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-235842-21 MS	T05S	Total/NA	Water	SM 4500 Cl- E	
500-235842-21 MSD	T05S	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 721901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total/NA	Water	SM 2540C	
500-235842-14	G48S	Total/NA	Water	SM 2540C	
500-235842-15	G47S	Total/NA	Water	SM 2540C	
500-235842-16	T03S	Total/NA	Water	SM 2540C	
500-235842-17	DUP	Total/NA	Water	SM 2540C	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## General Chemistry (Continued)

### Analysis Batch: 721901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-18	T02S	Total/NA	Water	SM 2540C	
500-235842-19	T08S	Total/NA	Water	SM 2540C	
500-235842-20	T01S	Total/NA	Water	SM 2540C	
500-235842-21	T05S	Total/NA	Water	SM 2540C	
MB 500-721901/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-721901/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-235842-13 DU	G45S	Total/NA	Water	SM 2540C	

### Analysis Batch: 721992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-13	G45S	Total/NA	Water	SM 4500 F C	
500-235842-14	G48S	Total/NA	Water	SM 4500 F C	
500-235842-15	G47S	Total/NA	Water	SM 4500 F C	
500-235842-16	T03S	Total/NA	Water	SM 4500 F C	
500-235842-17	DUP	Total/NA	Water	SM 4500 F C	
500-235842-18	T02S	Total/NA	Water	SM 4500 F C	
500-235842-19	T08S	Total/NA	Water	SM 4500 F C	
500-235842-20	T01S	Total/NA	Water	SM 4500 F C	
500-235842-21	T05S	Total/NA	Water	SM 4500 F C	
MB 500-721992/8	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-721992/9	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-235842-13 MS	G45S	Total/NA	Water	SM 4500 F C	
500-235842-13 MSD	G45S	Total/NA	Water	SM 4500 F C	

## Field Service / Mobile Lab

### Analysis Batch: 721522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	Field Sampling	
500-235842-2	T12S	Total/NA	Water	Field Sampling	
500-235842-3	T09S	Total/NA	Water	Field Sampling	
500-235842-4	T06S	Total/NA	Water	Field Sampling	
500-235842-5	G20S	Total/NA	GW	Field Sampling	
500-235842-6	R08S	Total/NA	GW	Field Sampling	
500-235842-7	G33S	Total/NA	Water	Field Sampling	
500-235842-8	G31S	Total/NA	Water	Field Sampling	
500-235842-9	G30S	Total/NA	Water	Field Sampling	
500-235842-10	R32S	Total/NA	Water	Field Sampling	
500-235842-11	G44S	Total/NA	Water	Field Sampling	
500-235842-12	G46S	Total/NA	Water	Field Sampling	
500-235842-13	G45S	Total/NA	Water	Field Sampling	
500-235842-14	G48S	Total/NA	Water	Field Sampling	
500-235842-15	G47S	Total/NA	Water	Field Sampling	
500-235842-16	T03S	Total/NA	Water	Field Sampling	
500-235842-17	DUP	Total/NA	Water	Field Sampling	
500-235842-18	T02S	Total/NA	Water	Field Sampling	
500-235842-19	T08S	Total/NA	Water	Field Sampling	
500-235842-20	T01S	Total/NA	Water	Field Sampling	
500-235842-21	T05S	Total/NA	Water	Field Sampling	



# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: MB 500-721251/1-A**  
**Matrix: Water**  
**Analysis Batch: 721484**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721251**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/30/23 09:01	06/30/23 18:28	1
Arsenic	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 18:28	1
Barium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 18:28	1
Beryllium	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 18:28	1
Cadmium	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 18:28	1
Calcium	<0.20		0.20		mg/L		06/30/23 09:01	06/30/23 18:28	1
Chromium	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 18:28	1
Cobalt	<0.0010		0.0010		mg/L		06/30/23 09:01	06/30/23 18:28	1
Lead	<0.00050		0.00050		mg/L		06/30/23 09:01	06/30/23 18:28	1
Molybdenum	<0.0050		0.0050		mg/L		06/30/23 09:01	06/30/23 18:28	1
Selenium	<0.0025		0.0025		mg/L		06/30/23 09:01	06/30/23 18:28	1
Thallium	<0.0020		0.0020		mg/L		06/30/23 09:01	06/30/23 18:28	1

**Lab Sample ID: MB 500-721251/1-A**  
**Matrix: Water**  
**Analysis Batch: 723834**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721251**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		06/30/23 09:01	07/19/23 15:11	1
Lithium	<0.010		0.010		mg/L		06/30/23 09:01	07/19/23 15:11	1

**Lab Sample ID: LCS 500-721251/2-A**  
**Matrix: Water**  
**Analysis Batch: 721484**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721251**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	2.00	2.03		mg/L		102	80 - 120
Beryllium	0.0500	0.0551		mg/L		110	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Calcium	10.0	10.7		mg/L		107	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.540		mg/L		108	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120
Molybdenum	1.00	0.997		mg/L		100	80 - 120
Selenium	0.100	0.0982		mg/L		98	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

**Lab Sample ID: LCS 500-721251/2-A**  
**Matrix: Water**  
**Analysis Batch: 723834**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721251**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.530		mg/L		106	80 - 120

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: MB 500-721843/1-A**  
**Matrix: Water**  
**Analysis Batch: 722538**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721843**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/06/23 08:24	07/10/23 21:48	1
Arsenic	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 21:48	1
Barium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 21:48	1
Beryllium	<0.0010	^1+	0.0010		mg/L		07/06/23 08:24	07/10/23 21:48	1
Boron	<0.050		0.050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Cadmium	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Calcium	<0.20		0.20		mg/L		07/06/23 08:24	07/10/23 21:48	1
Chromium	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Cobalt	<0.0010		0.0010		mg/L		07/06/23 08:24	07/10/23 21:48	1
Lead	<0.00050		0.00050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Lithium	<0.010		0.010		mg/L		07/06/23 08:24	07/10/23 21:48	1
Molybdenum	<0.0050		0.0050		mg/L		07/06/23 08:24	07/10/23 21:48	1
Selenium	<0.0025		0.0025		mg/L		07/06/23 08:24	07/10/23 21:48	1
Thallium	<0.0020		0.0020		mg/L		07/06/23 08:24	07/10/23 21:48	1

**Lab Sample ID: LCS 500-721843/2-A**  
**Matrix: Water**  
**Analysis Batch: 722538**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 721843**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.509		mg/L		102	80 - 120
Arsenic	0.100	0.0999		mg/L		100	80 - 120
Barium	2.00	1.96		mg/L		98	80 - 120
Beryllium	0.0500	0.0534	^1+	mg/L		107	80 - 120
Boron	1.00	1.07		mg/L		107	80 - 120
Cadmium	0.0500	0.0509		mg/L		102	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.555		mg/L		111	80 - 120
Molybdenum	1.00	0.982		mg/L		98	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-723161/12-A**  
**Matrix: Water**  
**Analysis Batch: 723380**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 723161**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/14/23 14:35	07/17/23 11:22	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

Lab Sample ID: LCS 500-723161/13-A  
 Matrix: Water  
 Analysis Batch: 723380

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 723161

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00193		mg/L		97	80 - 120

Lab Sample ID: 500-235842-10 MS  
 Matrix: Water  
 Analysis Batch: 723380

Client Sample ID: R32S  
 Prep Type: Total/NA  
 Prep Batch: 723161

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00109		mg/L		109	75 - 125

Lab Sample ID: 500-235842-10 MSD  
 Matrix: Water  
 Analysis Batch: 723380

Client Sample ID: R32S  
 Prep Type: Total/NA  
 Prep Batch: 723161

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.00103		mg/L		103	75 - 125	6	20

Lab Sample ID: 500-235842-10 DU  
 Matrix: Water  
 Analysis Batch: 723380

Client Sample ID: R32S  
 Prep Type: Total/NA  
 Prep Batch: 723161

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

Lab Sample ID: MB 500-723321/12-A  
 Matrix: Water  
 Analysis Batch: 723528

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 723321

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/17/23 10:15	07/18/23 07:48	1

Lab Sample ID: LCS 500-723321/13-A  
 Matrix: Water  
 Analysis Batch: 723528

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 723321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00197		mg/L		99	80 - 120

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

Lab Sample ID: MB 500-720956/1  
 Matrix: Water  
 Analysis Batch: 720956

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/28/23 20:39	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: LCS 500-720956/2**  
**Matrix: Water**  
**Analysis Batch: 720956**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	228		mg/L		91	80 - 120

**Lab Sample ID: MB 500-720957/1**  
**Matrix: Water**  
**Analysis Batch: 720957**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/28/23 21:56	1

**Lab Sample ID: LCS 500-720957/2**  
**Matrix: Water**  
**Analysis Batch: 720957**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	236		mg/L		94	80 - 120

**Lab Sample ID: MB 500-721291/1**  
**Matrix: Water**  
**Analysis Batch: 721291**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			06/30/23 11:55	1

**Lab Sample ID: LCS 500-721291/2**  
**Matrix: Water**  
**Analysis Batch: 721291**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	254		mg/L		102	80 - 120

**Lab Sample ID: MB 500-721901/1**  
**Matrix: Water**  
**Analysis Batch: 721901**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			07/06/23 10:44	1

**Lab Sample ID: LCS 500-721901/2**  
**Matrix: Water**  
**Analysis Batch: 721901**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	276		mg/L		110	80 - 120

**Lab Sample ID: 500-235842-13 DU**  
**Matrix: Water**  
**Analysis Batch: 721901**

**Client Sample ID: G45S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	610		608		mg/L		0.7	5

Euofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: MB 500-720896/112**  
**Matrix: Water**  
**Analysis Batch: 720896**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/28/23 13:49	1

**Lab Sample ID: LCS 500-720896/113**  
**Matrix: Water**  
**Analysis Batch: 720896**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.9		mg/L		100	85 - 115

**Lab Sample ID: 500-235842-4 MS**  
**Matrix: Water**  
**Analysis Batch: 720896**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	13		20.0	30.2		mg/L		87	75 - 125

**Lab Sample ID: 500-235842-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 720896**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13		20.0	30.5		mg/L		89	75 - 125	1	20

**Lab Sample ID: MB 500-721120/16**  
**Matrix: Water**  
**Analysis Batch: 721120**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/29/23 12:25	1

**Lab Sample ID: LCS 500-721120/17**  
**Matrix: Water**  
**Analysis Batch: 721120**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.2		mg/L		96	85 - 115

**Lab Sample ID: MB 500-721741/16**  
**Matrix: Water**  
**Analysis Batch: 721741**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			07/05/23 13:06	1

**Lab Sample ID: LCS 500-721741/17**  
**Matrix: Water**  
**Analysis Batch: 721741**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.9		mg/L		99	85 - 115

Eurolins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

Lab Sample ID: 500-235842-21 MS  
 Matrix: Water  
 Analysis Batch: 721741

Client Sample ID: T05S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	140		20.0	155	4	mg/L		83	75 - 125

Lab Sample ID: 500-235842-21 MSD  
 Matrix: Water  
 Analysis Batch: 721741

Client Sample ID: T05S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	140		20.0	154	4	mg/L		76	75 - 125	1	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-720973/31  
 Matrix: Water  
 Analysis Batch: 720973

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/28/23 17:22	1

Lab Sample ID: LCS 500-720973/32  
 Matrix: Water  
 Analysis Batch: 720973

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

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

Lab Sample ID: MB 500-721581/3  
 Matrix: Water  
 Analysis Batch: 721581

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/30/23 14:22	1

Lab Sample ID: LCS 500-721581/4  
 Matrix: Water  
 Analysis Batch: 721581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.5		mg/L		105	90 - 119

Lab Sample ID: 500-235842-5 MS  
 Matrix: GW  
 Analysis Batch: 721581

Client Sample ID: G20S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.78		5.00	5.83		mg/L		101	75 - 125

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: 500-235842-5 MSD**  
**Matrix: GW**  
**Analysis Batch: 721581**

**Client Sample ID: G20S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.78		5.00	5.84		mg/L		101	75 - 125	0	20

**Lab Sample ID: MB 500-721992/8**  
**Matrix: Water**  
**Analysis Batch: 721992**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			07/06/23 15:42	1

**Lab Sample ID: LCS 500-721992/9**  
**Matrix: Water**  
**Analysis Batch: 721992**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.0		mg/L		100	90 - 119

**Lab Sample ID: 500-235842-13 MS**  
**Matrix: Water**  
**Analysis Batch: 721992**

**Client Sample ID: G45S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.36		5.00	5.67		mg/L		106	75 - 125

**Lab Sample ID: 500-235842-13 MSD**  
**Matrix: Water**  
**Analysis Batch: 721992**

**Client Sample ID: G45S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.36		5.00	5.34		mg/L		100	75 - 125	6	20

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

**Lab Sample ID: MB 500-721056/16**  
**Matrix: Water**  
**Analysis Batch: 721056**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/29/23 09:01	1

**Lab Sample ID: MB 500-721056/43**  
**Matrix: Water**  
**Analysis Batch: 721056**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/29/23 09:09	1

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

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

**Lab Sample ID: LCS 500-721056/17**  
**Matrix: Water**  
**Analysis Batch: 721056**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	19.1		mg/L		96	88 - 123

**Lab Sample ID: LCS 500-721056/44**  
**Matrix: Water**  
**Analysis Batch: 721056**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.3		mg/L		101	88 - 123

**Lab Sample ID: 500-235842-7 MS**  
**Matrix: Water**  
**Analysis Batch: 721056**

**Client Sample ID: G33S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	73	F1	20.0	91.2		mg/L		89	75 - 125

**Lab Sample ID: 500-235842-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 721056**

**Client Sample ID: G33S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sulfate	73	F1	20.0	88.1	F1	mg/L		74	75 - 125	4	20

**Lab Sample ID: MB 500-721686/16**  
**Matrix: Water**  
**Analysis Batch: 721686**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			07/05/23 09:30	1

**Lab Sample ID: LCS 500-721686/17**  
**Matrix: Water**  
**Analysis Batch: 721686**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.5		mg/L		103	88 - 123

**Lab Sample ID: 500-235842-21 MS**  
**Matrix: Water**  
**Analysis Batch: 721686**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	610		20.0	600	4	mg/L		-37	75 - 125

**Lab Sample ID: 500-235842-21 MSD**  
**Matrix: Water**  
**Analysis Batch: 721686**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Sulfate	610		20.0	594	4	mg/L		-67	75 - 125	1	20

Eurofins Chicago





# Chain of Custody Record 641388



Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

500-235842 COC

TAL-8210

Client Contact		Project Manager		Site Contact		Date	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FL, Cl, SO4</i>		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS				For Lab Use Only	
Phone		TAT if different from Below _____				Walk-in Client	
Fax		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Lab Sampling	
Project Name <i>Joliet #9 CCR</i>						Job / SDG No	
Site <i>2023 GW + Turbidity</i>				<i>500-235842</i>			
P O #						Sample Specific Notes	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	
<i>G205</i>		<i>06/28/23</i>	<i>0903</i>		<i>W</i>	<i>5</i>	<i>/ / / /</i>
<i>R085</i>		<i>06/28/23</i>	<i>1222</i>		<i>W</i>	<i>5</i>	<i>/ / / /</i>
<i>G335</i>		<i>06/28/23</i>	<i>1343</i>		<i>W</i>	<i>5</i>	<i>/ / / /</i>
<i>G315</i>		<i>06/28/23</i>	<i>1439</i>		<i>W</i>	<i>5</i>	<i>/ / / /</i>
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>3.0</i> Cor'd <i>3.2</i>		Therm ID No _____	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/28/23 1537</i>		Received by _____	
Relinquished by		Company		Date/Time		Received by _____	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>	
						Date/Time <i>6/28/23 1537</i>	

500-235842

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# Chain of Custody Record 641389



Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager</b>		<b>Site Contact</b>		<b>Date</b>		<b>COC No</b>	
Company Name <i>M. duvest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) Perform MS/MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS FI, CI, SO4</i>		 500-235842 COC		Sampler: For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/> Job / SDG No <i>500-235842</i>	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax									
Project Name <i>Solet #9 CCR</i>									
Site <i>2Q23 GW + Turbidity</i>									
P O #									
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b> (C=Comp, G=Grab)	<b>Matrix</b>	<b># of Cont.</b>	<b>Sample Specific Notes</b>		
<i>G305</i>		<i>06/29/23</i>	<i>0841</i>		<i>W</i>	<i>5</i>			
<i>R325</i>		<i>06/29/23</i>	<i>1039</i>		<i>W</i>	<i>5</i>			
<i>G445</i>		<i>06/29/23</i>	<i>1137</i>		<i>W</i>	<i>5</i>			
<i>G465</i>		<i>06/29/23</i>	<i>1309</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
<b>Possible Hazard Identification:</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<b>Special Instructions/QC Requirements &amp; Comments</b>									
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>4.1</i> Corr'd <i>3.7</i>		Therm ID No _____			
Relinquished by: <i>GP</i>		Company: <i>EGTA</i>		Date/Time: <i>06/29/23 1415</i>		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by: <i>the lab</i>		Company: <i>EGTA</i>	
								Date/Time: <i>06/29/23 1415</i>	

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# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-235842-1

**Login Number: 235842**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4,3.2,3.7,3.9,1.0,1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: T13S

Date Collected: 06/27/23 09:31

Date Received: 06/27/23 15:00

## Lab Sample ID: 500-235842-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:23
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 15:18
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:27
Total/NA	Analysis	SM 2540C		1	720956	CLB	EET CHI	06/28/23 21:30
Total/NA	Analysis	SM 4500 CI- E		1	720896	MM	EET CHI	06/28/23 13:52
Total/NA	Analysis	SM 4500 F C		1	720973	EH	EET CHI	06/28/23 17:33
Total/NA	Analysis	SM 4500 SO4 E		10	721056	MM	EET CHI	06/29/23 09:27
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/27/23 09:31

## Client Sample ID: T12S

Date Collected: 06/27/23 11:17

Date Received: 06/27/23 15:00

## Lab Sample ID: 500-235842-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:27
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723834	FXG	EET CHI	07/19/23 15:21
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:25
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:29
Total/NA	Analysis	SM 2540C		1	720956	CLB	EET CHI	06/28/23 21:33
Total/NA	Analysis	SM 4500 CI- E		5	720896	MM	EET CHI	06/28/23 14:19
Total/NA	Analysis	SM 4500 F C		1	720973	EH	EET CHI	06/28/23 17:47
Total/NA	Analysis	SM 4500 SO4 E		10	721056	MM	EET CHI	06/29/23 09:28
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/27/23 11:17

## Client Sample ID: T09S

Date Collected: 06/27/23 12:12

Date Received: 06/27/23 15:00

## Lab Sample ID: 500-235842-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:30
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723834	FXG	EET CHI	07/19/23 15:25
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:29
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:31

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: T09S

Lab Sample ID: 500-235842-3

Date Collected: 06/27/23 12:12

Matrix: Water

Date Received: 06/27/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	720956	CLB	EET CHI	06/28/23 21:35
Total/NA	Analysis	SM 4500 CI- E		2	720896	MM	EET CHI	06/28/23 13:53
Total/NA	Analysis	SM 4500 F C		1	720973	EH	EET CHI	06/28/23 18:02
Total/NA	Analysis	SM 4500 SO4 E		20	721056	MM	EET CHI	06/29/23 09:07
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/27/23 12:12

## Client Sample ID: T06S

Lab Sample ID: 500-235842-4

Date Collected: 06/27/23 13:33

Matrix: Water

Date Received: 06/27/23 15:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:34
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 15:28
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:33
Total/NA	Analysis	SM 2540C		1	720956	CLB	EET CHI	06/28/23 21:38
Total/NA	Analysis	SM 4500 CI- E		1	720896	MM	EET CHI	06/28/23 13:53
Total/NA	Analysis	SM 4500 F C		1	720973	EH	EET CHI	06/28/23 18:07
Total/NA	Analysis	SM 4500 SO4 E		5	721056	MM	EET CHI	06/29/23 09:08
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/27/23 13:33

## Client Sample ID: G20S

Lab Sample ID: 500-235842-5

Date Collected: 06/28/23 09:03

Matrix: GW

Date Received: 06/28/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:44
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 15:32
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:32
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:35
Total/NA	Analysis	SM 2540C		1	720957	CLB	EET CHI	06/28/23 22:34
Total/NA	Analysis	SM 4500 CI- E		2	721120	MM	EET CHI	06/29/23 12:26
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:31
Total/NA	Analysis	SM 4500 SO4 E		10	721056	MM	EET CHI	06/29/23 09:09
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/28/23 09:03



# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: R08S

Date Collected: 06/28/23 12:22

Date Received: 06/28/23 15:37

## Lab Sample ID: 500-235842-6

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:47
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723834	FXG	EET CHI	07/19/23 15:35
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:36
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:37
Total/NA	Analysis	SM 2540C		1	720957	CLB	EET CHI	06/28/23 22:37
Total/NA	Analysis	SM 4500 CI- E		5	721120	MM	EET CHI	06/29/23 12:26
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:44
Total/NA	Analysis	SM 4500 SO4 E		20	721056	MM	EET CHI	06/29/23 09:09
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/28/23 12:22

## Client Sample ID: G33S

Date Collected: 06/28/23 13:43

Date Received: 06/28/23 15:37

## Lab Sample ID: 500-235842-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:51
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 15:46
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:39
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:39
Total/NA	Analysis	SM 2540C		1	720957	CLB	EET CHI	06/28/23 22:39
Total/NA	Analysis	SM 4500 CI- E		1	721120	MM	EET CHI	06/29/23 12:26
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:49
Total/NA	Analysis	SM 4500 SO4 E		2	721056	MM	EET CHI	06/29/23 09:28
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/28/23 13:43

## Client Sample ID: G31S

Date Collected: 06/28/23 14:39

Date Received: 06/28/23 15:37

## Lab Sample ID: 500-235842-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:54
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 15:49
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:43

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: G31S

## Lab Sample ID: 500-235842-8

Date Collected: 06/28/23 14:39

Matrix: Water

Date Received: 06/28/23 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:46
Total/NA	Analysis	SM 2540C		1	720957	CLB	EET CHI	06/28/23 22:42
Total/NA	Analysis	SM 4500 CI- E		10	721120	MM	EET CHI	06/29/23 12:26
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:54
Total/NA	Analysis	SM 4500 SO4 E		20	721056	MM	EET CHI	06/29/23 09:28
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/28/23 14:39

## Client Sample ID: G30S

## Lab Sample ID: 500-235842-9

Date Collected: 06/29/23 08:41

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 19:58
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	723834	FXG	EET CHI	07/19/23 15:53
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:46
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:48
Total/NA	Analysis	SM 2540C		1	721291	MB	EET CHI	06/30/23 12:19
Total/NA	Analysis	SM 4500 CI- E		10	721741	MM	EET CHI	07/05/23 13:06
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 14:59
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 10:07
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/29/23 08:41

## Client Sample ID: R32S

## Lab Sample ID: 500-235842-10

Date Collected: 06/29/23 10:39

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 20:01
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 15:56
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:50
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:50
Total/NA	Analysis	SM 2540C		1	721291	MB	EET CHI	06/30/23 12:22
Total/NA	Analysis	SM 4500 CI- E		2	721741	MM	EET CHI	07/05/23 13:07
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 15:03

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# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: R32S

## Lab Sample ID: 500-235842-10

Date Collected: 06/29/23 10:39

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 10:08
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/29/23 10:39

## Client Sample ID: G44S

## Lab Sample ID: 500-235842-11

Date Collected: 06/29/23 11:37

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 20:05
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723834	FXG	EET CHI	07/19/23 16:00
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:53
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 11:58
Total/NA	Analysis	SM 2540C		1	721291	MB	EET CHI	06/30/23 12:26
Total/NA	Analysis	SM 4500 CI- E		2	721741	MM	EET CHI	07/05/23 13:07
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 15:18
Total/NA	Analysis	SM 4500 SO4 E		10	721686	MM	EET CHI	07/05/23 09:33
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/29/23 11:37

## Client Sample ID: G46S

## Lab Sample ID: 500-235842-12

Date Collected: 06/29/23 13:09

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	721484	FXG	EET CHI	06/30/23 20:08
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723834	FXG	EET CHI	07/19/23 16:04
Total Recoverable	Prep	3005A			721251	BDE	EET CHI	06/30/23 09:01 - 06/30/23 09:31 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723834	FXG	EET CHI	07/19/23 16:57
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:01
Total/NA	Analysis	SM 2540C		1	721291	MB	EET CHI	06/30/23 12:29
Total/NA	Analysis	SM 4500 CI- E		2	721741	MM	EET CHI	07/05/23 13:07
Total/NA	Analysis	SM 4500 F C		1	721581	EH	EET CHI	06/30/23 15:23
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:34
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/29/23 13:09

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-235842-13**

**Date Collected: 06/30/23 08:50**

**Matrix: Water**

**Date Received: 06/30/23 14:53**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:37
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	723138	FXG	EET CHI	07/13/23 18:04
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:03
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 10:59
Total/NA	Analysis	SM 4500 CI- E		10	721741	MM	EET CHI	07/05/23 13:08
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 15:53
Total/NA	Analysis	SM 4500 SO4 E		10	721686	MM	EET CHI	07/05/23 09:34
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 08:50

**Client Sample ID: G48S**

**Lab Sample ID: 500-235842-14**

**Date Collected: 06/30/23 09:39**

**Matrix: Water**

**Date Received: 06/30/23 14:53**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:40
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723138	FXG	EET CHI	07/13/23 18:07
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:05
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:20
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:08
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:17
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:34
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 09:39

**Client Sample ID: G47S**

**Lab Sample ID: 500-235842-15**

**Date Collected: 06/30/23 10:48**

**Matrix: Water**

**Date Received: 06/30/23 14:53**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:44
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723138	FXG	EET CHI	07/13/23 18:11
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:11
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:23
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:08
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:21

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: G47S

Date Collected: 06/30/23 10:48

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:35
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 10:48

## Client Sample ID: T03S

Date Collected: 06/30/23 11:54

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:47
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723138	FXG	EET CHI	07/13/23 18:14
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:13
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:26
Total/NA	Analysis	SM 4500 Cl- E		5	721741	MM	EET CHI	07/05/23 13:09
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:26
Total/NA	Analysis	SM 4500 SO4 E		10	721686	MM	EET CHI	07/05/23 09:35
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 11:54

## Client Sample ID: DUP

Date Collected: 06/30/23 11:54

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:50
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		5	723138	FXG	EET CHI	07/13/23 18:18
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:15
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:28
Total/NA	Analysis	SM 4500 Cl- E		5	721741	MM	EET CHI	07/05/23 13:09
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:31
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:35
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 11:54

## Client Sample ID: T02S

Date Collected: 06/30/23 13:21

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 22:54

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

## Client Sample ID: T02S

Date Collected: 06/30/23 13:21

Date Received: 06/30/23 14:53

## Lab Sample ID: 500-235842-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	723138	FXG	EET CHI	07/13/23 18:21
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:18
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:31
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:10
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:36
Total/NA	Analysis	SM 4500 SO4 E		10	721686	MM	EET CHI	07/05/23 09:36
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	06/30/23 13:21

## Client Sample ID: T08S

Date Collected: 07/03/23 09:08

Date Received: 07/03/23 14:15

## Lab Sample ID: 500-235842-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 23:04
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		20	723138	FXG	EET CHI	07/13/23 18:25
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:20
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:34
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:10
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:41
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:36
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	07/03/23 09:08

## Client Sample ID: T01S

Date Collected: 07/03/23 10:39

Date Received: 07/03/23 14:15

## Lab Sample ID: 500-235842-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 23:08
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		10	723138	FXG	EET CHI	07/13/23 18:28
Total/NA	Prep	7470A			723161	MJG	EET CHI	07/14/23 14:35 - 07/14/23 16:35 <sup>1</sup>
Total/NA	Analysis	7470A		1	723380	MJG	EET CHI	07/17/23 12:22
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:36
Total/NA	Analysis	SM 4500 CI- E		5	721741	MM	EET CHI	07/05/23 13:10
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:45
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 09:36
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	07/03/23 10:39

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR 2Q23

Job ID: 500-235842-1

**Client Sample ID: T05S**

**Lab Sample ID: 500-235842-21**

**Date Collected: 07/03/23 12:31**

**Matrix: Water**

**Date Received: 07/03/23 14:15**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		1	722538	FXG	EET CHI	07/10/23 23:11
Total Recoverable	Prep	3005A			721843	BDE	EET CHI	07/06/23 08:24 - 07/06/23 08:54 <sup>1</sup>
Total Recoverable	Analysis	6020A		50	723138	FXG	EET CHI	07/13/23 18:32
Total/NA	Prep	7470A			723321	MJG	EET CHI	07/17/23 10:15 - 07/17/23 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	723528	MJG	EET CHI	07/18/23 07:58
Total/NA	Analysis	SM 2540C		1	721901	MB	EET CHI	07/06/23 11:39
Total/NA	Analysis	SM 4500 Cl- E		10	721741	MM	EET CHI	07/05/23 13:27
Total/NA	Analysis	SM 4500 F C		1	721992	EH	EET CHI	07/06/23 16:49
Total/NA	Analysis	SM 4500 SO4 E		20	721686	MM	EET CHI	07/05/23 11:08
Total/NA	Analysis	Field Sampling		1	721522	JVB	EET CHI	07/03/23 12:31

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

**Laboratory References:**

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





# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 8/1/2023 2:16:45 PM

## JOB DESCRIPTION

Joliet #9 (Quarry) CCR (RAD) 2Q23

## JOB NUMBER

500-235842-2



# Eurofins Chicago

## Job Notes

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## Authorization



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# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Job ID: 500-235842-2

### Laboratory: Eurofins Chicago

#### Narrative

#### Job Narrative 500-235842-2

#### Receipt

The samples were received on 6/27/2023 3:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 1.0° C, 1.4° C, 3.2° C, 3.7° C, 3.9° C and 4.4° C.

#### RAD

Methods 903.0, 9315: Radium 226 Batch 618200

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

T13S (500-235842-1), T12S (500-235842-2), T09S (500-235842-3), T06S (500-235842-4), (LCS 160-618200/2-A), (MB 160-618200/1-A) and (500-235842-D-1-A DU)

Method 903.0: Radium-226 batch 618532

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

G30S (500-235842-9), R32S (500-235842-10), G44S (500-235842-11), G46S (500-235842-12), (LCS 160-618532/2-A), (MB 160-618532/1-A), (500-235842-D-12-D DU), (500-235929-O-1-G), (500-235929-O-1-H MS) and (500-235929-P-1-D MSD)

Method 903.0: Radium-226 batch 618898

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

G20S (500-235842-5), R08S (500-235842-6), G33S (500-235842-7), G31S (500-235842-8), G45S (500-235842-13), G48S (500-235842-14), G47S (500-235842-15), T03S (500-235842-16), DUP (500-235842-17), T02S (500-235842-18), (LCS 160-618898/2-A), (MB 160-618898/1-A) and (500-235842-D-5-A DU)

Method 903.0: Radium-226 batch 619283

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

T08S (500-235842-19), T01S (500-235842-20), T05S (500-235842-21), (LCS 160-619283/2-A), (MB 160-619283/1-A) and (500-235842-E-20-C DU)

Method 904.0: Radium-228 prep batch 160-618534:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. G30S (500-235842-9), R32S (500-235842-10), G44S (500-235842-11), G46S (500-235842-12), (LCS 160-618534/2-A), (MB 160-618534/1-A), (500-235842-D-12-C DU), (500-235929-O-1-E), (500-235929-O-1-F MS) and (500-235929-P-1-C MSD)

Methods 904.0, 9320: Radium-228 batch 618201

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

T13S (500-235842-1), T12S (500-235842-2), (LCS 160-618201/2-A), (MB 160-618201/1-A) and (500-235842-D-1-B DU)

Method 904.0: Radium 228 batch 618201

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

# Case Narrative

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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## Job ID: 500-235842-2 (Continued)

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### Laboratory: Eurofins Chicago (Continued)

applied as the Activity Reference Date.

T09S (500-235842-3) and T06S (500-235842-4)

Method 904.0: Radium-228 batch 618899

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: G33S (500-235842-7). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 618899

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

G20S (500-235842-5), R08S (500-235842-6), G33S (500-235842-7), G31S (500-235842-8), G45S (500-235842-13), G48S (500-235842-14), G47S (500-235842-15), T03S (500-235842-16), DUP (500-235842-17), T02S (500-235842-18), (LCS 160-618899/2-A), (MB 160-618899/1-A) and (500-235842-D-5-B DU)

Method 904.0: Radium-228 batch 619284

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

T08S (500-235842-19), T01S (500-235842-20), T05S (500-235842-21), (LCS 160-619284/2-A), (MB 160-619284/1-A) and (500-235842-E-20-D DU)

Method PrecSep\_0:

Method PrecSep\_0:

Method PrecSep\_0:

Method PrecSep-21:

Method PrecSep-21:

Method PrecSep-21:

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

# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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



# Sample Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-235842-1	T13S	Water	06/27/23 09:31	06/27/23 15:00
500-235842-2	T12S	Water	06/27/23 11:17	06/27/23 15:00
500-235842-3	T09S	Water	06/27/23 12:12	06/27/23 15:00
500-235842-4	T06S	Water	06/27/23 13:33	06/27/23 15:00
500-235842-5	G20S	GW	06/28/23 09:03	06/28/23 15:37
500-235842-6	R08S	GW	06/28/23 12:22	06/28/23 15:37
500-235842-7	G33S	Water	06/28/23 13:43	06/28/23 15:37
500-235842-8	G31S	Water	06/28/23 14:39	06/28/23 15:37
500-235842-9	G30S	Water	06/29/23 08:41	06/29/23 14:15
500-235842-10	R32S	Water	06/29/23 10:39	06/29/23 14:15
500-235842-11	G44S	Water	06/29/23 11:37	06/29/23 14:15
500-235842-12	G46S	Water	06/29/23 13:09	06/29/23 14:15
500-235842-13	G45S	Water	06/30/23 08:50	06/30/23 14:53
500-235842-14	G48S	Water	06/30/23 09:39	06/30/23 14:53
500-235842-15	G47S	Water	06/30/23 10:48	06/30/23 14:53
500-235842-16	T03S	Water	06/30/23 11:54	06/30/23 14:53
500-235842-17	DUP	Water	06/30/23 11:54	06/30/23 14:53
500-235842-18	T02S	Water	06/30/23 13:21	06/30/23 14:53
500-235842-19	T08S	Water	07/03/23 09:08	07/03/23 14:15
500-235842-20	T01S	Water	07/03/23 10:39	07/03/23 14:15
500-235842-21	T05S	Water	07/03/23 12:31	07/03/23 14:15



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T13S**

**Lab Sample ID: 500-235842-1**

Date Collected: 06/27/23 09:31

Matrix: Water

Date Received: 06/27/23 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.476		0.194	0.199	1.00	0.211	pCi/L	06/29/23 09:53	07/24/23 15:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					06/29/23 09:53	07/24/23 15:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.260	U	0.382	0.382	1.00	0.645	pCi/L	06/29/23 10:01	07/21/23 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					06/29/23 10:01	07/21/23 13:18	1
Y Carrier	87.1		30 - 110					06/29/23 10:01	07/21/23 13:18	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.735		0.428	0.431	5.00	0.645	pCi/L		07/25/23 15:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T12S**

**Lab Sample ID: 500-235842-2**

Date Collected: 06/27/23 11:17

Matrix: Water

Date Received: 06/27/23 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.07		0.273	0.290	1.00	0.222	pCi/L	06/29/23 09:53	07/24/23 16:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					06/29/23 09:53	07/24/23 16:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.25		0.502	0.515	1.00	0.634	pCi/L	06/29/23 10:01	07/21/23 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					06/29/23 10:01	07/21/23 13:19	1
Y Carrier	82.2		30 - 110					06/29/23 10:01	07/21/23 13:19	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.33		0.571	0.591	5.00	0.634	pCi/L		07/25/23 15:50	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T09S**

**Lab Sample ID: 500-235842-3**

Date Collected: 06/27/23 12:12

Matrix: Water

Date Received: 06/27/23 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.45		0.323	0.348	1.00	0.257	pCi/L	06/29/23 09:53	07/24/23 16:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					06/29/23 09:53	07/24/23 16:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08		0.546	0.555	1.00	0.767	pCi/L	06/29/23 10:01	07/21/23 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					06/29/23 10:01	07/21/23 13:21	1
Y Carrier	82.6		30 - 110					06/29/23 10:01	07/21/23 13:21	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.52		0.634	0.655	5.00	0.767	pCi/L		07/25/23 15:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T06S**

**Lab Sample ID: 500-235842-4**

Date Collected: 06/27/23 13:33

Matrix: Water

Date Received: 06/27/23 15:00

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.856		0.262	0.273	1.00	0.258	pCi/L	06/29/23 09:53	07/24/23 16:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					06/29/23 09:53	07/24/23 16:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.298	U	0.389	0.390	1.00	0.650	pCi/L	06/29/23 10:01	07/21/23 13:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					06/29/23 10:01	07/21/23 13:21	1
Y Carrier	82.2		30 - 110					06/29/23 10:01	07/21/23 13:21	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.15		0.469	0.476	5.00	0.650	pCi/L		07/25/23 15:50	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G20S**

**Lab Sample ID: 500-235842-5**

Date Collected: 06/28/23 09:03

Matrix: GW

Date Received: 06/28/23 15:37

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.38		0.270	0.297	1.00	0.185	pCi/L	07/05/23 09:43	07/27/23 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					07/05/23 09:43	07/27/23 10:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.02		0.536	0.568	1.00	0.553	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	87.5		30 - 110					07/05/23 09:48	07/24/23 13:27	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	3.40		0.600	0.641	5.00	0.553	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: R08S**

**Lab Sample ID: 500-235842-6**

Date Collected: 06/28/23 12:22

Matrix: GW

Date Received: 06/28/23 15:37

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.528		0.186	0.192	1.00	0.199	pCi/L	07/05/23 09:43	07/27/23 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					07/05/23 09:43	07/27/23 10:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.908		0.441	0.448	1.00	0.607	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	86.0		30 - 110					07/05/23 09:48	07/24/23 13:27	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.44		0.479	0.487	5.00	0.607	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G33S**

**Lab Sample ID: 500-235842-7**

Date Collected: 06/28/23 13:43

Matrix: Water

Date Received: 06/28/23 15:37

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.255	U	0.252	0.253	1.00	0.396	pCi/L	07/05/23 09:43	07/27/23 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	49.5		30 - 110					07/05/23 09:43	07/27/23 10:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.404	U G	0.880	0.881	1.00	1.53	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	49.5		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	87.9		30 - 110					07/05/23 09:48	07/24/23 13:27	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.659	U	0.915	0.917	5.00	1.53	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G31S**

**Lab Sample ID: 500-235842-8**

Date Collected: 06/28/23 14:39

Matrix: Water

Date Received: 06/28/23 15:37

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.80		0.301	0.342	1.00	0.176	pCi/L	07/05/23 09:43	07/27/23 10:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					07/05/23 09:43	07/27/23 10:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.15		0.476	0.487	1.00	0.629	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	85.6		30 - 110					07/05/23 09:48	07/24/23 13:27	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.95		0.563	0.595	5.00	0.629	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G30S**

**Lab Sample ID: 500-235842-9**

Date Collected: 06/29/23 08:41

Matrix: Water

Date Received: 06/29/23 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.986		0.164	0.186	1.00	0.0773	pCi/L	07/03/23 09:22	07/26/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					07/03/23 09:22	07/26/23 09:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.46		0.435	0.455	1.00	0.484	pCi/L	07/03/23 09:27	07/10/23 12:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.9		30 - 110					07/03/23 09:27	07/10/23 12:57	1
Y Carrier	83.4		30 - 110					07/03/23 09:27	07/10/23 12:57	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.45		0.465	0.492	5.00	0.484	pCi/L		07/26/23 17:13	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: R32S**

**Lab Sample ID: 500-235842-10**

Date Collected: 06/29/23 10:39

Matrix: Water

Date Received: 06/29/23 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.20		0.184	0.214	1.00	0.0774	pCi/L	07/03/23 09:22	07/26/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					07/03/23 09:22	07/26/23 09:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.826		0.387	0.395	1.00	0.523	pCi/L	07/03/23 09:27	07/10/23 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					07/03/23 09:27	07/10/23 12:58	1
Y Carrier	82.2		30 - 110					07/03/23 09:27	07/10/23 12:58	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.02		0.429	0.449	5.00	0.523	pCi/L		07/26/23 17:13	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G44S**

**Lab Sample ID: 500-235842-11**

Date Collected: 06/29/23 11:37

Matrix: Water

Date Received: 06/29/23 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.530		0.132	0.140	1.00	0.104	pCi/L	07/03/23 09:22	07/26/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					07/03/23 09:22	07/26/23 09:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.831		0.388	0.395	1.00	0.525	pCi/L	07/03/23 09:27	07/10/23 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					07/03/23 09:27	07/10/23 12:58	1
Y Carrier	88.6		30 - 110					07/03/23 09:27	07/10/23 12:58	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.36		0.410	0.419	5.00	0.525	pCi/L		07/26/23 17:13	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G46S**

**Lab Sample ID: 500-235842-12**

Date Collected: 06/29/23 13:09

Matrix: Water

Date Received: 06/29/23 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.12		0.177	0.204	1.00	0.0916	pCi/L	07/03/23 09:22	07/26/23 09:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					07/03/23 09:22	07/26/23 09:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.432	0.452	1.00	0.498	pCi/L	07/03/23 09:27	07/10/23 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110					07/03/23 09:27	07/10/23 12:58	1
Y Carrier	87.9		30 - 110					07/03/23 09:27	07/10/23 12:58	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.55		0.467	0.496	5.00	0.498	pCi/L		07/26/23 17:13	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G45S**

**Lab Sample ID: 500-235842-13**

Date Collected: 06/30/23 08:50

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.22		0.241	0.265	1.00	0.141	pCi/L	07/05/23 09:43	07/27/23 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					07/05/23 09:43	07/27/23 15:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.662		0.398	0.403	1.00	0.577	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	86.4		30 - 110					07/05/23 09:48	07/24/23 13:27	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.88		0.465	0.482	5.00	0.577	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G48S**

**Lab Sample ID: 500-235842-14**

Date Collected: 06/30/23 09:39

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.462		0.158	0.163	1.00	0.147	pCi/L	07/05/23 09:43	07/27/23 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					07/05/23 09:43	07/27/23 15:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0122	U	0.389	0.389	1.00	0.711	pCi/L	07/05/23 09:48	07/24/23 13:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					07/05/23 09:48	07/24/23 13:27	1
Y Carrier	86.7		30 - 110					07/05/23 09:48	07/24/23 13:27	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.474	U	0.420	0.422	5.00	0.711	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G47S**

**Lab Sample ID: 500-235842-15**

Date Collected: 06/30/23 10:48

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.423</b>		0.168	0.172	1.00	0.197	pCi/L	07/05/23 09:43	07/27/23 15:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					07/05/23 09:43	07/27/23 15:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.836</b>		0.393	0.400	1.00	0.529	pCi/L	07/05/23 09:48	07/24/23 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.7		30 - 110					07/05/23 09:48	07/24/23 13:28	1
Y Carrier	89.7		30 - 110					07/05/23 09:48	07/24/23 13:28	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.26</b>		0.427	0.435	5.00	0.529	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T03S**

**Lab Sample ID: 500-235842-16**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.864		0.208	0.222	1.00	0.147	pCi/L	07/05/23 09:43	07/27/23 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					07/05/23 09:43	07/27/23 15:30	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.30		0.533	0.547	1.00	0.728	pCi/L	07/05/23 09:48	07/24/23 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.7		30 - 110					07/05/23 09:48	07/24/23 13:28	1
Y Carrier	88.6		30 - 110					07/05/23 09:48	07/24/23 13:28	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.17		0.572	0.590	5.00	0.728	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: DUP**

**Lab Sample ID: 500-235842-17**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.865		0.210	0.224	1.00	0.148	pCi/L	07/05/23 09:43	07/27/23 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					07/05/23 09:43	07/27/23 15:30	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.393	U	0.391	0.393	1.00	0.630	pCi/L	07/05/23 09:48	07/24/23 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					07/05/23 09:48	07/24/23 13:28	1
Y Carrier	89.0		30 - 110					07/05/23 09:48	07/24/23 13:28	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.26		0.444	0.452	5.00	0.630	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T02S**

**Lab Sample ID: 500-235842-18**

Date Collected: 06/30/23 13:21

Matrix: Water

Date Received: 06/30/23 14:53

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.893		0.247	0.260	1.00	0.188	pCi/L	07/05/23 09:43	07/27/23 15:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					07/05/23 09:43	07/27/23 15:31	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.692	U	0.534	0.538	1.00	0.823	pCi/L	07/05/23 09:48	07/24/23 13:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		30 - 110					07/05/23 09:48	07/24/23 13:28	1
Y Carrier	85.6		30 - 110					07/05/23 09:48	07/24/23 13:28	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.58		0.588	0.598	5.00	0.823	pCi/L		07/28/23 10:12	1



# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T08S**

**Lab Sample ID: 500-235842-19**

Date Collected: 07/03/23 09:08

Matrix: Water

Date Received: 07/03/23 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.301		0.135	0.137	1.00	0.162	pCi/L	07/07/23 08:55	07/31/23 14:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					07/07/23 08:55	07/31/23 14:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0160	U	0.303	0.303	1.00	0.563	pCi/L	07/07/23 08:58	07/26/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					07/07/23 08:58	07/26/23 12:05	1
Y Carrier	82.6		30 - 110					07/07/23 08:58	07/26/23 12:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.317	U	0.332	0.333	5.00	0.563	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T01S**

**Lab Sample ID: 500-235842-20**

Date Collected: 07/03/23 10:39

Matrix: Water

Date Received: 07/03/23 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.611</b>		0.179	0.188	1.00	0.166	pCi/L	07/07/23 08:55	07/31/23 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		30 - 110					07/07/23 08:55	07/31/23 14:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>1.15</b>		0.483	0.495	1.00	0.629	pCi/L	07/07/23 08:58	07/26/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.9		30 - 110					07/07/23 08:58	07/26/23 12:05	1
Y Carrier	82.6		30 - 110					07/07/23 08:58	07/26/23 12:05	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.76</b>		0.515	0.529	5.00	0.629	pCi/L		07/28/23 10:12	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T05S**

**Lab Sample ID: 500-235842-21**

Date Collected: 07/03/23 12:31

Matrix: Water

Date Received: 07/03/23 14:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.292		0.141	0.144	1.00	0.163	pCi/L	07/07/23 08:55	07/31/23 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					07/07/23 08:55	07/31/23 14:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0264	U	0.368	0.368	1.00	0.678	pCi/L	07/07/23 08:58	07/26/23 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.2		30 - 110					07/07/23 08:58	07/26/23 12:08	1
Y Carrier	90.1		30 - 110					07/07/23 08:58	07/26/23 12:08	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.319	U	0.394	0.395	5.00	0.678	pCi/L		07/28/23 10:12	1

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Rad

### Prep Batch: 618200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	PrecSep-21	
500-235842-2	T12S	Total/NA	Water	PrecSep-21	
500-235842-3	T09S	Total/NA	Water	PrecSep-21	
500-235842-4	T06S	Total/NA	Water	PrecSep-21	
MB 160-618200/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-618200/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-235842-1 DU	T13S	Total/NA	Water	PrecSep-21	

### Prep Batch: 618201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-1	T13S	Total/NA	Water	PrecSep_0	
500-235842-2	T12S	Total/NA	Water	PrecSep_0	
500-235842-3	T09S	Total/NA	Water	PrecSep_0	
500-235842-4	T06S	Total/NA	Water	PrecSep_0	
MB 160-618201/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-618201/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-235842-1 DU	T13S	Total/NA	Water	PrecSep_0	

### Prep Batch: 618532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	PrecSep-21	
500-235842-10	R32S	Total/NA	Water	PrecSep-21	
500-235842-11	G44S	Total/NA	Water	PrecSep-21	
500-235842-12	G46S	Total/NA	Water	PrecSep-21	
MB 160-618532/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-618532/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-235842-12 DU	G46S	Total/NA	Water	PrecSep-21	

### Prep Batch: 618534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-9	G30S	Total/NA	Water	PrecSep_0	
500-235842-10	R32S	Total/NA	Water	PrecSep_0	
500-235842-11	G44S	Total/NA	Water	PrecSep_0	
500-235842-12	G46S	Total/NA	Water	PrecSep_0	
MB 160-618534/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-618534/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-235842-12 DU	G46S	Total/NA	Water	PrecSep_0	

### Prep Batch: 618898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	PrecSep-21	
500-235842-6	R08S	Total/NA	GW	PrecSep-21	
500-235842-7	G33S	Total/NA	Water	PrecSep-21	
500-235842-8	G31S	Total/NA	Water	PrecSep-21	
500-235842-13	G45S	Total/NA	Water	PrecSep-21	
500-235842-14	G48S	Total/NA	Water	PrecSep-21	
500-235842-15	G47S	Total/NA	Water	PrecSep-21	
500-235842-16	T03S	Total/NA	Water	PrecSep-21	
500-235842-17	DUP	Total/NA	Water	PrecSep-21	
500-235842-18	T02S	Total/NA	Water	PrecSep-21	
MB 160-618898/1-A	Method Blank	Total/NA	Water	PrecSep-21	

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# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Rad (Continued)

### Prep Batch: 618898 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-618898/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-235842-5 DU	G20S	Total/NA	GW	PrecSep-21	

### Prep Batch: 618899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-5	G20S	Total/NA	GW	PrecSep_0	
500-235842-6	R08S	Total/NA	GW	PrecSep_0	
500-235842-7	G33S	Total/NA	Water	PrecSep_0	
500-235842-8	G31S	Total/NA	Water	PrecSep_0	
500-235842-13	G45S	Total/NA	Water	PrecSep_0	
500-235842-14	G48S	Total/NA	Water	PrecSep_0	
500-235842-15	G47S	Total/NA	Water	PrecSep_0	
500-235842-16	T03S	Total/NA	Water	PrecSep_0	
500-235842-17	DUP	Total/NA	Water	PrecSep_0	
500-235842-18	T02S	Total/NA	Water	PrecSep_0	
MB 160-618899/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-618899/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-235842-5 DU	G20S	Total/NA	GW	PrecSep_0	

### Prep Batch: 619283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-19	T08S	Total/NA	Water	PrecSep-21	
500-235842-20	T01S	Total/NA	Water	PrecSep-21	
500-235842-21	T05S	Total/NA	Water	PrecSep-21	
MB 160-619283/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-619283/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-235842-20 DU	T01S	Total/NA	Water	PrecSep-21	

### Prep Batch: 619284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-235842-19	T08S	Total/NA	Water	PrecSep_0	
500-235842-20	T01S	Total/NA	Water	PrecSep_0	
500-235842-21	T05S	Total/NA	Water	PrecSep_0	
MB 160-619284/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-619284/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-235842-20 DU	T01S	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

**Lab Sample ID: MB 160-618200/1-A**  
**Matrix: Water**  
**Analysis Batch: 621404**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618200**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03613	U	0.0885	0.0886	1.00	0.162	pCi/L	06/29/23 09:53	07/24/23 15:24	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					06/29/23 09:53	07/24/23 15:24	1

**Lab Sample ID: LCS 160-618200/2-A**  
**Matrix: Water**  
**Analysis Batch: 621404**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618200**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.01		1.15	1.00	0.140	pCi/L	88	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield 97.7	Qualifier	30 - 110						

**Lab Sample ID: 500-235842-1 DU**  
**Matrix: Water**  
**Analysis Batch: 621404**

**Client Sample ID: T13S**  
**Prep Type: Total/NA**  
**Prep Batch: 618200**

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.476		0.4224		0.187	1.00	0.201	pCi/L	0.14	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield 93.4	Qualifier	30 - 110							

**Lab Sample ID: MB 160-618532/1-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618532**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02474	U	0.0405	0.0406	1.00	0.0990	pCi/L	07/03/23 09:22	07/26/23 07:33	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					07/03/23 09:22	07/26/23 07:33	1

**Lab Sample ID: LCS 160-618532/2-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618532**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.75		1.10	1.00	0.0871	pCi/L	95	75 - 125

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# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

**Lab Sample ID: LCS 160-618532/2-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618532**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.2		30 - 110

**Lab Sample ID: 500-235842-12 DU**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: G46S**  
**Prep Type: Total/NA**  
**Prep Batch: 618532**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	1.12		1.078		0.198	1.00	0.0820	pCi/L	0.1	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.4		30 - 110

**Lab Sample ID: MB 160-618898/1-A**  
**Matrix: Water**  
**Analysis Batch: 621941**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618898**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								Prepared	Analyzed	Prepared	Analyzed	
Radium-226	-0.06723	U	0.0557	0.0560	1.00	0.157	pCi/L	07/05/23 09:43	07/27/23 10:03	07/05/23 09:43	07/27/23 10:03	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110	07/05/23 09:43	07/27/23 10:03	1

**Lab Sample ID: LCS 160-618898/2-A**  
**Matrix: Water**  
**Analysis Batch: 621941**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618898**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									%Rec	Limits
Radium-226	11.3	10.60		1.18	1.00	0.168	pCi/L	94	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	89.7		30 - 110

**Lab Sample ID: 500-235842-5 DU**  
**Matrix: GW**  
**Analysis Batch: 621941**

**Client Sample ID: G20S**  
**Prep Type: Total/NA**  
**Prep Batch: 618898**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	1.38		1.301		0.273	1.00	0.164	pCi/L	0.14	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.0		30 - 110



# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

**Lab Sample ID: MB 160-619283/1-A**  
**Matrix: Water**  
**Analysis Batch: 622151**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 619283**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01329	U	0.0562	0.0563	1.00	0.115	pCi/L	07/07/23 08:55	07/31/23 14:19	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	30 - 110				07/07/23 08:55		07/31/23 14:19	
	97.2									

**Lab Sample ID: LCS 160-619283/2-A**  
**Matrix: Water**  
**Analysis Batch: 622151**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 619283**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	9.982		1.08	1.00	0.113	pCi/L	88	75 - 125	
Carrier	LCS	LCS	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	93.5									

**Lab Sample ID: 500-235842-20 DU**  
**Matrix: Water**  
**Analysis Batch: 622291**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 619283**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.611		0.6760		0.184	1.00	0.121	pCi/L	0.17	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	30 - 110							
	89.4									

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

**Lab Sample ID: MB 160-618201/1-A**  
**Matrix: Water**  
**Analysis Batch: 621294**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618201**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3766	U	0.299	0.301	1.00	0.463	pCi/L	06/29/23 10:01	07/21/23 13:16	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	30 - 110				06/29/23 10:01		07/21/23 13:16	
	100									
Y Carrier	81.9		30 - 110				06/29/23 10:01		07/21/23 13:16	

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

**Lab Sample ID: LCS 160-618201/2-A**  
**Matrix: Water**  
**Analysis Batch: 621294**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618201**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.02	8.084		1.13	1.00	0.472	pCi/L	101	75	125
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	97.7		30 - 110							
Y Carrier	78.5		30 - 110							

**Lab Sample ID: 500-235842-1 DU**  
**Matrix: Water**  
**Analysis Batch: 621294**

**Client Sample ID: T13S**  
**Prep Type: Total/NA**  
**Prep Batch: 618201**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										0.03
Radium-228	0.260	U	0.2796	U	0.369	1.00	0.616	pCi/L	0.03	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	93.4		30 - 110							
Y Carrier	83.7		30 - 110							

**Lab Sample ID: MB 160-618534/1-A**  
**Matrix: Water**  
**Analysis Batch: 619638**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618534**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										1
Radium-228	-0.06466	U	0.260	0.260	1.00	0.507	pCi/L	07/03/23 09:27	07/10/23 12:53	1
<b>MB MB</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	91.6		30 - 110							
Y Carrier	86.7		30 - 110							
								<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
								07/03/23 09:27	07/10/23 12:53	1
								07/03/23 09:27	07/10/23 12:53	1

**Lab Sample ID: LCS 160-618534/2-A**  
**Matrix: Water**  
**Analysis Batch: 619638**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618534**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-228	8.05	7.841		1.10	1.00	0.547	pCi/L	97	75	125
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	98.2		30 - 110							
Y Carrier	86.4		30 - 110							

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

**Lab Sample ID: 500-235842-12 DU**  
**Matrix: Water**  
**Analysis Batch: 619619**

**Client Sample ID: G46S**  
**Prep Type: Total/NA**  
**Prep Batch: 618534**

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	1.44		1.184		0.402	1.00	0.444	pCi/L	0.29	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	95.4		30 - 110							
Y Carrier	87.1		30 - 110							

**Lab Sample ID: MB 160-618899/1-A**  
**Matrix: Water**  
**Analysis Batch: 621404**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 618899**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1876	U	0.290	0.290	1.00	0.494	pCi/L	07/05/23 09:48	07/24/23 13:24	1
<b>MB MB</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>		<b>Analyzed</b>	
Ba Carrier	100		30 - 110				07/05/23 09:48		07/24/23 13:24	
Y Carrier	86.7		30 - 110				07/05/23 09:48		07/24/23 13:24	

**Lab Sample ID: LCS 160-618899/2-A**  
**Matrix: Water**  
**Analysis Batch: 621448**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 618899**

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec Limits	
		Result	Qual	Uncert. (2σ+/-)						
Radium-228	8.01	8.707		1.27	1.00	0.634	pCi/L	109	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	89.7		30 - 110							
Y Carrier	84.1		30 - 110							

**Lab Sample ID: 500-235842-5 DU**  
**Matrix: GW**  
**Analysis Batch: 621448**

**Client Sample ID: G20S**  
**Prep Type: Total/NA**  
**Prep Batch: 618899**

Analyte	Sample	Sample	DU		Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	2.02		1.148		0.483	1.00	0.626	pCi/L	0.83	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	92.0		30 - 110							
Y Carrier	86.7		30 - 110							

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

**Lab Sample ID: MB 160-619284/1-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 619284**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1032	U	0.246	0.246	1.00	0.439	pCi/L	07/07/23 08:58	07/26/23 12:04	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	97.2		30 - 110		07/07/23 08:58	07/26/23 12:04	1			
Y Carrier	81.1		30 - 110		07/07/23 08:58	07/26/23 12:04	1			

**Lab Sample ID: LCS 160-619284/2-A**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 619284**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.01	8.297		1.17	1.00	0.534	pCi/L	104	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	93.5		30 - 110						
Y Carrier	85.2		30 - 110						

**Lab Sample ID: 500-235842-20 DU**  
**Matrix: Water**  
**Analysis Batch: 621719**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 619284**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-228	1.15		0.7447		0.421	1.00	0.598	pCi/L	0.44	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	89.4		30 - 110							
Y Carrier	86.7		30 - 110							

# Chain of Custody Record 641387




Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
\_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		____ of ____ COCs	
Address		Analysis Turnaround Time		Filtered Sample Y/N Perform MS / MSD (Y/N) <i>Radium 228</i> <i>Radium 226</i> <i>Combined 226/228</i> <i>TDS, F, Cl, SO4</i> <i>Metals: Hg, Mn, Ni, Pb, Se, V, Zn</i>		 500-235842 COC		Sampler For Lab Use Only Walk-in Client Lab Sampling Job / SDG No <i>500-735042</i>	
City/State/Zip <i>Joliet IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax									
Project Name <i>Joliet #9 CCR</i>		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.		Sample Specific Notes	
Site <i>2023 GW + Turbidity</i>									
P O #									
1	<i>T130</i>	<i>06/27/23</i>	<i>0931</i>		<i>W</i>	<i>5</i>			
2	<i>T125</i>	<i>06/27/23</i>	<i>1117</i>		<i>W</i>	<i>5</i>			
3	<i>T095</i>	<i>06/27/23</i>	<i>1212</i>		<i>W</i>	<i>5</i>			
4	<i>T065</i>	<i>06/27/23</i>	<i>1333</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments: <div style="text-align: right; font-size: 1.2em;"><i>4874A</i></div>									
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/27/23 1500</i>		Received by _____		Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>EETA</i> Date/Time <i>6/27/23 1500</i>	



# Chain of Custody Record 641388



Environment Testing  
America

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

500-235842 COC

TAL-8210

Client Contact		Project Manager		Site Contact		Date	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, FL, Cl, SO4</i>		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS				For Lab Use Only	
Phone		TAT if different from Below _____				Walk-in Client	
Fax		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Lab Sampling	
Project Name <i>Joliet #9 CCR</i>						Job / SDG No	
Site <i>2023 GW + Turbidity</i>				<i>500-235842</i>			
P O #						Sample Specific Notes	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.		
<i>G205</i>	<i>06/28/23</i>	<i>0903</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>
<i>R085</i>	<i>06/28/23</i>	<i>1222</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>
<i>G335</i>	<i>06/28/23</i>	<i>1343</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>
<i>G315</i>	<i>06/28/23</i>	<i>1439</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3, 5=NaOH, 6= Other							
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments:							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>3.0</i> Cor'd <i>3.2</i>		Therm ID No _____	
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/28/23 1537</i>		Received by _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>[Signature]</i>	
						Date/Time <i>6/28/23 1537</i>	

500-235842

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# Chain of Custody Record 641389




Environment Testing  
America

TAL-8210

Address \_\_\_\_\_  
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Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager</b>		<b>Site Contact</b>		<b>Date</b>		<b>COC No</b>	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>metals 14 elements + Hg</i> <i>TDS FI, CI, SO4</i>		 500-235842 COC		Sampler _____ <b>For Lab Use Only</b> Walk-in Client _____ Lab Sampling _____ Job / SDG No <i>500-235842</i>	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							
Phone _____		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Fax _____									
Project Name <i>Solet #9 CCR</i>									
Site <i>2Q23 GW + Turbidity</i>									
P O # _____									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes		
<i>G305</i>		<i>06/29/23</i>	<i>0841</i>		<i>W</i>	<i>5</i>			
<i>R325</i>		<i>06/29/23</i>	<i>1039</i>		<i>W</i>	<i>5</i>			
<i>G445</i>		<i>06/29/23</i>	<i>1137</i>		<i>W</i>	<i>5</i>			
<i>G465</i>		<i>06/29/23</i>	<i>1309</i>		<i>W</i>	<i>5</i>			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
<b>Possible Hazard Identification:</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<b>Special Instructions/QC Requirements &amp; Comments</b> _____									
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <i>4.1</i> Corr'd <i>3.7</i>		Therm ID No _____			
Relinquished by <i>GP</i>		Company <i>EGTA</i>		Date/Time <i>06/29/23 1415</i>		Received by _____		Company _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>the lab</i>		Company <i>EGTA</i> Date/Time <i>06/29/23 1415</i>	

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# Chain of Custody Record 641390



Environment Testing  
America

500-235842 COC

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EME LLC</i>		Tel/Email		Lab Contact		Carrier:		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals Elements + Hg</i> <i>TDS, F, Cl, SO4</i>				Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client _____	
Fax								Lab Sampling _____	
Project Name <i>Joliet #9 CCR</i>								Job / SDG No	
Site <i>2Q23 GW + Turbidity</i>				<i>500-235842</i>					
P O #									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes			
<i>G45S</i>	<i>06/30/23</i>	<i>0850</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>G48S</i>	<i>06/30/23</i>	<i>0939</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>G47S</i>	<i>06/30/23</i>	<i>1048</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T03S</i>	<i>06/30/23</i>	<i>1154</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>DUP of T03S</i>	<i>06/30/23</i>	<i>1154</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T02S</i>	<i>06/30/23</i>	<i>1321</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No						Custody Seal No _____ Cooler Temp (°C) Obs'd _____ Cor'd _____ Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>06/30/23 1453</i>		Received by <i>1453</i>		Company _____ Date/Time _____	
Relinquished by		Company		Date/Time		Received by		Company _____ Date/Time _____	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>EETA</i> Date/Time <i>06/30/23 1453</i>	





# Chain of Custody Record 641391




Environment Testing  
America

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager:		Site Contact:		Date		COC No	
Company Name <i>Midwest Generation EPE LLC</i>		Tel/Email:		Lab Contact:		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____		Filtered Sample (Y/N) Perform MS/MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Metals 14 elements + Hg</i> <i>TDS, F, Cl, SO4</i>		 500-235842 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>								For Lab Use Only: Walk-in Client _____ Lab Sampling _____	
Phone		Project Name <i>Joliet #9 CCR</i>		Site <i>2023 GW + Turbidity</i>		Job / SDG No <i>500-235842</i>		Sample Specific Notes	
Fax		P O #							
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
<i>T08S</i>	<i>07/03/23</i>	<i>0908</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T01S</i>	<i>07/03/23</i>	<i>1039</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
<i>T05S</i>	<i>07/03/23</i>	<i>1231</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>	<i>/</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>1.7</i> Corr'd <i>1.4</i>		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>EETA</i>		Date/Time <i>07/03/23 1415</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>[Signature]</i>		Company <i>EETA</i> Date/Time <i>7/3/23 1415</i>	





# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-235842-2

**Login Number: 235842**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.4,3.2,3.7,3.9,1.0,1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-235842-2

**Login Number: 235842**

**List Number: 2**

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

**List Source: Eurofins St. Louis**

**List Creation: 06/28/23 10:52 AM**

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



## Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-235842-2

**Login Number: 235842**

**List Number: 3**

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

**List Source: Eurofins St. Louis**

**List Creation: 06/30/23 02:47 PM**

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

# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-235842-2

**Login Number: 235842**

**List Number: 4**

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

**List Source: Eurofins St. Louis**

**List Creation: 07/03/23 04:13 PM**

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

# Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-235842-2

**Login Number: 235842**

**List Number: 5**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 07/06/23 11:16 AM**

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

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T13S**  
**Date Collected: 06/27/23 09:31**  
**Date Received: 06/27/23 15:00**

**Lab Sample ID: 500-235842-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618200	KAC	EET SL	06/29/23 09:53
Total/NA	Analysis	903.0		1	621404	FLC	EET SL	07/24/23 15:26
Total/NA	Prep	PrecSep_0			618201	KAC	EET SL	06/29/23 10:01
Total/NA	Analysis	904.0		1	621294	FLC	EET SL	07/21/23 13:18
Total/NA	Analysis	Ra226_Ra228		1	621534	SCB	EET SL	07/25/23 15:50

**Client Sample ID: T12S**  
**Date Collected: 06/27/23 11:17**  
**Date Received: 06/27/23 15:00**

**Lab Sample ID: 500-235842-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618200	KAC	EET SL	06/29/23 09:53
Total/NA	Analysis	903.0		1	621448	FLC	EET SL	07/24/23 16:04
Total/NA	Prep	PrecSep_0			618201	KAC	EET SL	06/29/23 10:01
Total/NA	Analysis	904.0		1	621294	FLC	EET SL	07/21/23 13:19
Total/NA	Analysis	Ra226_Ra228		1	621534	SCB	EET SL	07/25/23 15:50

**Client Sample ID: T09S**  
**Date Collected: 06/27/23 12:12**  
**Date Received: 06/27/23 15:00**

**Lab Sample ID: 500-235842-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618200	KAC	EET SL	06/29/23 09:53
Total/NA	Analysis	903.0		1	621448	FLC	EET SL	07/24/23 16:04
Total/NA	Prep	PrecSep_0			618201	KAC	EET SL	06/29/23 10:01
Total/NA	Analysis	904.0		1	621195	FLC	EET SL	07/21/23 13:21
Total/NA	Analysis	Ra226_Ra228		1	621534	SCB	EET SL	07/25/23 15:50

**Client Sample ID: T06S**  
**Date Collected: 06/27/23 13:33**  
**Date Received: 06/27/23 15:00**

**Lab Sample ID: 500-235842-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618200	KAC	EET SL	06/29/23 09:53
Total/NA	Analysis	903.0		1	621448	FLC	EET SL	07/24/23 16:04
Total/NA	Prep	PrecSep_0			618201	KAC	EET SL	06/29/23 10:01
Total/NA	Analysis	904.0		1	621195	FLC	EET SL	07/21/23 13:21
Total/NA	Analysis	Ra226_Ra228		1	621534	SCB	EET SL	07/25/23 15:50



# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Client Sample ID: G20S

Date Collected: 06/28/23 09:03

Date Received: 06/28/23 15:37

Lab Sample ID: 500-235842-5

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621941	FLC	EET SL	07/27/23 10:03
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: R08S

Date Collected: 06/28/23 12:22

Date Received: 06/28/23 15:37

Lab Sample ID: 500-235842-6

Matrix: GW

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621941	FLC	EET SL	07/27/23 10:03
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: G33S

Date Collected: 06/28/23 13:43

Date Received: 06/28/23 15:37

Lab Sample ID: 500-235842-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621941	FLC	EET SL	07/27/23 10:03
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: G31S

Date Collected: 06/28/23 14:39

Date Received: 06/28/23 15:37

Lab Sample ID: 500-235842-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621941	FLC	EET SL	07/27/23 10:04
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G30S**

**Lab Sample ID: 500-235842-9**

Date Collected: 06/29/23 08:41

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618532	KAC	EET SL	07/03/23 09:22
Total/NA	Analysis	903.0		1	621719	FLC	EET SL	07/26/23 09:44
Total/NA	Prep	PrecSep_0			618534	KAC	EET SL	07/03/23 09:27
Total/NA	Analysis	904.0		1	619619	SCB	EET SL	07/10/23 12:57
Total/NA	Analysis	Ra226_Ra228		1	621796	EMH	EET SL	07/26/23 17:13

**Client Sample ID: R32S**

**Lab Sample ID: 500-235842-10**

Date Collected: 06/29/23 10:39

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618532	KAC	EET SL	07/03/23 09:22
Total/NA	Analysis	903.0		1	621719	FLC	EET SL	07/26/23 09:44
Total/NA	Prep	PrecSep_0			618534	KAC	EET SL	07/03/23 09:27
Total/NA	Analysis	904.0		1	619619	SCB	EET SL	07/10/23 12:58
Total/NA	Analysis	Ra226_Ra228		1	621796	EMH	EET SL	07/26/23 17:13

**Client Sample ID: G44S**

**Lab Sample ID: 500-235842-11**

Date Collected: 06/29/23 11:37

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618532	KAC	EET SL	07/03/23 09:22
Total/NA	Analysis	903.0		1	621719	FLC	EET SL	07/26/23 09:44
Total/NA	Prep	PrecSep_0			618534	KAC	EET SL	07/03/23 09:27
Total/NA	Analysis	904.0		1	619619	SCB	EET SL	07/10/23 12:58
Total/NA	Analysis	Ra226_Ra228		1	621796	EMH	EET SL	07/26/23 17:13

**Client Sample ID: G46S**

**Lab Sample ID: 500-235842-12**

Date Collected: 06/29/23 13:09

Matrix: Water

Date Received: 06/29/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618532	KAC	EET SL	07/03/23 09:22
Total/NA	Analysis	903.0		1	621719	FLC	EET SL	07/26/23 09:44
Total/NA	Prep	PrecSep_0			618534	KAC	EET SL	07/03/23 09:27
Total/NA	Analysis	904.0		1	619619	SCB	EET SL	07/10/23 12:58
Total/NA	Analysis	Ra226_Ra228		1	621796	EMH	EET SL	07/26/23 17:13

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: G45S**

**Lab Sample ID: 500-235842-13**

Date Collected: 06/30/23 08:50

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:29
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

**Client Sample ID: G48S**

**Lab Sample ID: 500-235842-14**

Date Collected: 06/30/23 09:39

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:29
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:27
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

**Client Sample ID: G47S**

**Lab Sample ID: 500-235842-15**

Date Collected: 06/30/23 10:48

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:29
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:28
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

**Client Sample ID: T03S**

**Lab Sample ID: 500-235842-16**

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:30
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621448	FLC	EET SL	07/24/23 13:28
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

## Client Sample ID: DUP

Lab Sample ID: 500-235842-17

Date Collected: 06/30/23 11:54

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:30
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621450	FLC	EET SL	07/24/23 13:28
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: T02S

Lab Sample ID: 500-235842-18

Date Collected: 06/30/23 13:21

Matrix: Water

Date Received: 06/30/23 14:53

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			618898	KAC	EET SL	07/05/23 09:43
Total/NA	Analysis	903.0		1	621813	FLC	EET SL	07/27/23 15:31
Total/NA	Prep	PrecSep_0			618899	KAC	EET SL	07/05/23 09:48
Total/NA	Analysis	904.0		1	621450	FLC	EET SL	07/24/23 13:28
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: T08S

Lab Sample ID: 500-235842-19

Date Collected: 07/03/23 09:08

Matrix: Water

Date Received: 07/03/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			619283	SRH	EET SL	07/07/23 08:55
Total/NA	Analysis	903.0		1	622291	FLC	EET SL	07/31/23 14:27
Total/NA	Prep	PrecSep_0			619284	SRH	EET SL	07/07/23 08:58
Total/NA	Analysis	904.0		1	621719	FLC	EET SL	07/26/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

## Client Sample ID: T01S

Lab Sample ID: 500-235842-20

Date Collected: 07/03/23 10:39

Matrix: Water

Date Received: 07/03/23 14:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			619283	SRH	EET SL	07/07/23 08:55
Total/NA	Analysis	903.0		1	622291	FLC	EET SL	07/31/23 14:28
Total/NA	Prep	PrecSep_0			619284	SRH	EET SL	07/07/23 08:58
Total/NA	Analysis	904.0		1	621719	FLC	EET SL	07/26/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

**Client Sample ID: T05S**

**Lab Sample ID: 500-235842-21**

**Date Collected: 07/03/23 12:31**

**Matrix: Water**

**Date Received: 07/03/23 14:15**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			619283	SRH	EET SL	07/07/23 08:55
Total/NA	Analysis	903.0		1	622291	FLC	EET SL	07/31/23 14:28
Total/NA	Prep	PrecSep_0			619284	SRH	EET SL	07/07/23 08:58
Total/NA	Analysis	904.0		1	621777	FLC	EET SL	07/26/23 12:08
Total/NA	Analysis	Ra226_Ra228		1	621977	SCB	EET SL	07/28/23 10:12

**Laboratory References:**

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



# Tracer/Carrier Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

Matrix: GW

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-235842-5	G20S	90.5
500-235842-5 DU	G20S	92.0
500-235842-6	R08S	96.0

#### Tracer/Carrier Legend

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-235842-1	T13S	94.9
500-235842-1 DU	T13S	93.4
500-235842-2	T12S	94.1
500-235842-3	T09S	88.8
500-235842-4	T06S	91.6
500-235842-7	G33S	49.5
500-235842-8	G31S	93.0
500-235842-9	G30S	95.9
500-235842-10	R32S	93.9
500-235842-11	G44S	92.1
500-235842-12	G46S	94.4
500-235842-12 DU	G46S	95.4
500-235842-13	G45S	92.7
500-235842-14	G48S	91.7
500-235842-15	G47S	93.7
500-235842-16	T03S	92.7
500-235842-17	DUP	90.7
500-235842-18	T02S	86.4
500-235842-19	T08S	91.7
500-235842-20	T01S	76.9
500-235842-20 DU	T01S	89.4
500-235842-21	T05S	93.2
LCS 160-618200/2-A	Lab Control Sample	97.7
LCS 160-618532/2-A	Lab Control Sample	98.2
LCS 160-618898/2-A	Lab Control Sample	89.7
LCS 160-619283/2-A	Lab Control Sample	93.5
MB 160-618200/1-A	Method Blank	100
MB 160-618532/1-A	Method Blank	91.6
MB 160-618898/1-A	Method Blank	100
MB 160-619283/1-A	Method Blank	97.2

#### Tracer/Carrier Legend

Ba = Ba Carrier

# Tracer/Carrier Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #9 (Quarry) CCR (RAD) 2Q23

Job ID: 500-235842-2

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

**Matrix: GW**

**Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-235842-5	G20S	90.5	87.5
500-235842-5 DU	G20S	92.0	86.7
500-235842-6	R08S	96.0	86.0

**Tracer/Carrier Legend**  
Ba = Ba Carrier  
Y = Y Carrier

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

**Matrix: Water**

**Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-235842-1	T13S	94.9	87.1
500-235842-1 DU	T13S	93.4	83.7
500-235842-2	T12S	94.1	82.2
500-235842-3	T09S	88.8	82.6
500-235842-4	T06S	91.6	82.2
500-235842-7	G33S	49.5	87.9
500-235842-8	G31S	93.0	85.6
500-235842-9	G30S	95.9	83.4
500-235842-10	R32S	93.9	82.2
500-235842-11	G44S	92.1	88.6
500-235842-12	G46S	94.4	87.9
500-235842-12 DU	G46S	95.4	87.1
500-235842-13	G45S	92.7	86.4
500-235842-14	G48S	91.7	86.7
500-235842-15	G47S	93.7	89.7
500-235842-16	T03S	92.7	88.6
500-235842-17	DUP	90.7	89.0
500-235842-18	T02S	86.4	85.6
500-235842-19	T08S	91.7	82.6
500-235842-20	T01S	76.9	82.6
500-235842-20 DU	T01S	89.4	86.7
500-235842-21	T05S	93.2	90.1
LCS 160-618201/2-A	Lab Control Sample	97.7	78.5
LCS 160-618534/2-A	Lab Control Sample	98.2	86.4
LCS 160-618899/2-A	Lab Control Sample	89.7	84.1
LCS 160-619284/2-A	Lab Control Sample	93.5	85.2
MB 160-618201/1-A	Method Blank	100	81.9
MB 160-618534/1-A	Method Blank	91.6	86.7
MB 160-618899/1-A	Method Blank	100	86.7
MB 160-619284/1-A	Method Blank	97.2	81.1

**Tracer/Carrier Legend**  
Ba = Ba Carrier  
Y = Y Carrier



Environment Testing

**Eurofins Chicago**

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

Sample ID: T13S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-1

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

**PURGING INFORMATION**

Purge Date: 06/21/23 Start Purge: 0920 End Purge: 0931  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.71

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.76 (ft) pH 7.97 7.98 7.98 (std.)  
Ref. Measuring Pt. TIC SC 960 961 961 (umhos/cm)  
Well Elevation \* 525.33 (ft./msl) Temp. 14.89 14.98 14.98 (°C)  
Water Level 21.09 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 504.24 (ft./msl)  
Well Bottom Elevation \* 452.21 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 66°F, Haze, NW winds @ 5-10 mph  
Turbidity: 15.90 NTU  
Other: \*Reference Measurement (form added 05/08/2023)  
Depth To Water from L.S. = 21.09 - 2.76 = 18.33 (ft.)  
Levels were taken on 06/21/23 @ 0915.  
\* Total Depth: 73.12 (ft)

(Updated: 05/08/2023)

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





Environment Testing

**Eurofins Chicago**

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

Sample ID: T12S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-2

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

**PURGING INFORMATION**

Purge Date: 06/27/23 Start Purge: 1105 End Purge: 1117  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.77

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final  
Stick Up 2.74 (ft)      pH 7.81 7.82 7.82 (std.)  
Ref. Measuring Pt. TIC      SC 1218 1224 1224 (umhos/cm)  
Well Elevation \* 578.74 (ft./msl)      Temp. 13.78 13.86 13.86 (°C)  
Water Level 74.81 (ft.)      Well Stabilization / Recharge Grid  
Ground Water Elev. 503.93 (ft./msl)      


  
Well Bottom Elevation \* 452.24 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 71°F, Haze, N winds @ 5-10 mph  
Turbidity: 12.50 NTU  
Other: \*Reference Measurement (form added 05/08/2023)  
Depth To Water from L.S. = 74.81 - 2.74 = 72.07 (#)  
Levels were taken on 06/27/23 @ 1100  
\* Total Depth: 126.5 (ft)

(Updated: 05/08/2023)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: T09S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-3

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

Equipment Used: Purging \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (N)  
 Sampling \_\_\_\_\_ Bladder Pump \_\_\_\_\_ Dedicated (N)

**PURGING INFORMATION**

Purge Date: 06/27/23 Start Purge: 1159 End Purge: 1212  
 (2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.42

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
 Stick Up 2.40 (ft) pH 7.41 7.42 7.42 (std.)  
 Ref. Measuring Pt. TIC SC 1409 1408 1408 (umhos/cm)  
 Well Elevation \* 603.48 (ft./msl) Temp 14.25 14.31 14.31 (°C)  
 Water Level 108.09 (ft.) Well Stabilization / Recharge Grid  
 Ground Water Elev. 495.39 (ft./msl) 


  
 Well Bottom Elevation \* 444.80 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
 Weather Conditions: 73°F, Haze, N winds @ 5-10 mph  
 Turbidity: 32.10 NTU  
 Other: \*Reference Measurement (updated 02/19/14)  
 Depth To Water from L.S. = 108.09 - 2.40 = 105.69 (ft.)  
 Levels were taken on 06/27/23 @ 1154  
 \* Total Depth: 158.59

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: T06S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-4

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

**PURGING INFORMATION**

Purge Date: 06/27/23 Start Purge: 1315 End Purge: 1333  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.58

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.30 (ft) pH 6.85 6.88 6.88 (std.)  
Ref. Measuring Pt. TIC SC 799 800 800 (umhos/cm)  
Well Elevation \* 621.05 (ft./msl) Temp. 19.93 19.80 19.80 (°C)  
Water Level 117.08 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 503.97 (ft./msl)  
Well Bottom Elevation \* 447.94 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 75°F, Haze, N winds e 0-5 mph  
Turbidity: 0.44 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 117.08 - 2.30 = 114.78 (ft)  
Levels were taken on 06/27/23 @ 1310  
\* Total Deth = 173.00

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G20S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-5

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

**PURGING INFORMATION**

Purge Date: 06/28/23 Start Purge: 0843 End Purge: 180903  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.26

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.78 (ft) pH 7.20 7.20 7.20 (std.)  
Ref. Measuring Pt. TIC SC 716 711 711 (umhos/cm)  
Well Elevation \*580.87 (ft./msl) Temp. 18.44 18.57 18.57 (°C)  
Water Level 53.60 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 527.27 (ft./msl)  
Well Bottom Elevation \*442.28 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 72°F, Haze, W winds e 0-5 mph  
Turbidity: 0.25 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 53.60 - 2.78 = 50.82 (ft)  
Levels were taken on 06/28/23 @ 0838

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: R08S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-16

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

**PURGING INFORMATION**

Purge Date: 06/28/23 Start Purge: 1207 End Purge: 1222  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.39

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.55 (ft) pH 7.85 7.87 7.87 (std.)  
Ref. Measuring Pt. TIC SC 1069 1069 1069 (umhos/cm)  
Well Elevation \*578.66 (ft./msl) Temp. 15.20 15.24 15.24 (°C)  
Water Level 70.29 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 508.37 (ft./msl) 


  
Well Bottom Elevation \*453.08 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear,  
Weather Conditions: 79°F, Haze, SE windse 0-5 mph  
Turbidity: 0.34 NTU  
Other: \*Reference Measurement (Well ID updated 11-25-15)  
Depth To Water from L.S. = 70.29 - 2.55 = 67.74 (ft)  
Levels were taken on 06/28/23 @ 1202

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G33S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-7

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

**PURGING INFORMATION**

Purge Date: 06/28/23 Start Purge: 1321 End Purge: 1343  
(2400 Hr. Clock)

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

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 1.73 (ft) pH 7.47 7.45 7.45 (std.)  
Ref. Measuring Pt. TIC SC 738 742 742 (umhos/cm)  
Well Elevation \*535.67 (ft./msl) Temp. 19.37 19.17 19.17 (°C)  
Water Level 33.79 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 501.88 (ft./msl)  
Well Bottom Elevation \*452.72 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Gray, Slight Turbidity, No Odor  
Weather Conditions: 85°F, Haze, SE whdse 5-10 mph  
Turbidity: 17.40 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 33.79 - 1.73 = 32.06 (ft)  
Levels were taken on 06/28/23 @ 1316

(Updated: 07/14/2022 )

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G31S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-8

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

**PURGING INFORMATION**

Purge Date: 06/28/23 Start Purge: 1425 End Purge: 1439  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.63

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.58 (ft) pH 7.25 7.27 7.27 (std.)  
Ref. Measuring Pt. TIC SC 1710 1700 1700 (umhos/cm)  
Well Elevation \*535.73 (ft./msl) Temp. 15.90 16.05 16.05 (°C)  
Water Level 29.30 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 506.43 (ft./msl) 


  
Well Bottom Elevation \*453.36 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 83°F, Haze, SE winds @ 5-10 mph  
Turbidity: 1.00 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 29.30 - 2.58 = 26.72 (ft.)  
Levels were taken on 06/28/23 @ 1420

(Updated: 07/14/2022 )

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G30S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-9

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

**PURGING INFORMATION**

Purge Date: 04/29/23 Start Purge: 0827 End Purge: 0841  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.18

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.31 (ft) pH 7.54 7.55 7.55 (std.)  
Ref. Measuring Pt. TIC SC 1930 1930 1930 (umhos/cm)  
Well Elevation \*524.86 (ft./msl) Temp. 16.73 16.74 16.74 (°C)  
Water Level 2.44 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 522.42 (ft./msl)  
Well Bottom Elevation \*462.58 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 81°F, Partly Cloudy, S winds @ 5-10 mph  
Turbidity: 0.74 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 2.44 - 2.31 = 0.13 (ft.)  
Levels were taken on 04/29/23 @ 0822

(Updated: 07/14/2022 )

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





Environment Testing

**Eurofins Chicago**

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

Sample ID: R32S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-10

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

**PURGING INFORMATION**

Purge Date: 06/29/23 Start Purge: 1020 End Purge: 1039  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.98

**MEASUREMENTS**

Well Diameter 2.0 (inches)      1st      2nd      Final  
Stick Up 2.03 (ft)      pH 7.05 7.07 7.07 (std.)  
Ref. Measuring Pt. TIC      SC 808 815 815 (umhos/cm)  
Well Elevation \*536.97 (ft./msl)      Temp. 12.85 13.02 13.02 (°C)  
Water Level 22.35 (ft.)      Well Stabilization / Recharge Grid  
Ground Water Elev. 514.62 (ft./msl)      


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

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 84°F, Partly Cloudy, S winds e 5-10 mph  
Turbidity: 0.74 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 22.35 - 2.03 = 20.32 (ft.)  
Levels were taken on 06/29/23 @ 1015.

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G44S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-11

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

**PURGING INFORMATION**

Purge Date: 06/29/23 Start Purge: 1115 End Purge: 1137  
(2400 Hr. Clock)

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

**MEASUREMENTS**

Well Diameter	<u>2.0</u>	(inches)		<u>1st</u>	<u>2nd</u>	<u>Final</u>											
Stick Up	<u>2.18</u>	(ft)	pH	<u>7.00</u>	<u>7.00</u>	<u>7.00</u>	(std.)										
Ref. Measuring Pt.	<u>TIC</u>		SC	<u>1163</u>	<u>1165</u>	<u>1165</u>	(umhos/cm)										
Well Elevation	<u>*586.68</u>	(ft./msl)	Temp.	<u>16.20</u>	<u>16.25</u>	<u>16.25</u>	(°C)										
Water Level	<u>83.12</u>	(ft.)	Well Stabilization / Recharge Grid														
Ground Water Elev.	<u>503.56</u>	(ft./msl)	<table border="1" style="width: 100%; height: 30px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>														
Well Bottom Elevation	<u>*455.11</u>	(ft./msl)															

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, No Odor  
Weather Conditions: 86°F, Mostly Cloudy, S wind SE 5-10 mph  
Turbidity: 3.04 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 83.12 - 2.18 = 80.94 (ft.)  
Levels were taken on 06/29/23 @ 1110

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G46S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-1a

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

**PURGING INFORMATION**

Purge Date: 06/29/23 Start Purge: 1251 End Purge: 1309  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.81

**MEASUREMENTS**

Well Diameter 4.0 (inches) 1st 2nd Final  
Stick Up 2.70 (ft) pH 7.48 7.50 7.50 (std.)  
Ref. Measuring Pt. TIC SC 1335 1342 1342 (umhos/cm)  
Well Elevation \*601.41 (ft./msl) Temp. 15.08 15.19 15.19 (°C)  
Water Level 104.26 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 497.15 (ft./msl)  
Well Bottom Elevation \*453.62 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Tan, Moderate Turbidity, No Odor  
Weather Conditions: 85°F, Mostly Cloudy, S winds e 5-10 mph  
Turbidity: 32.30 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 104.26 - 2.70 = 101.56 (ft.)  
Levels were taken on 06/29/23 @ 1246

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G45S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-13

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

**PURGING INFORMATION**

Purge Date: 06/30/23 Start Purge: 0828 End Purge: 0850  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 1.42

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.97 (ft) pH 7.20 7.23 7.23 (std.)  
Ref. Measuring Pt. TIC SC 936 930 930 (umhos/cm)  
Well Elevation \*603.80 (ft./msl) Temp. 14.69 14.72 14.72 (°C)  
Water Level 66.33 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 537.47 (ft./msl)  
Well Bottom Elevation \*471.05 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 72°F, Fog, SW winds e 0-5 mph  
Turbidity: 0.42 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 66.33 - 2.97 = 63.36 (ft.)  
Levels were taken on 06/30/23 @ 0823

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G48S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-14

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

**PURGING INFORMATION**

Purge Date: 06/30/23 Start Purge: 0921 End Purge: 0939  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.93

**MEASUREMENTS**

Well Diameter 4.0 (inches) 1st 2nd Final  
Stick Up 2.45 (ft) pH 8.02 8.03 8.03 (std.)  
Ref. Measuring Pt. TIC SC 1451 1455 1455 (umhos/cm)  
Well Elevation \*620.77 (ft./msl) Temp. 17.01 16.99 16.99 (°C)  
Water Level 104.53 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 516.24 (ft./msl)  
Well Bottom Elevation \*468.32 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 74°F, Fog, Calm winds  
Turbidity: 1.87 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 104.53 - 2.45 = 102.08 (ft.)  
Levels were taken on 06/30/23 @ 0916

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: G47S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-15

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

**PURGING INFORMATION**

Purge Date: 06/30/23 Start Purge: 1028 End Purge: 1048  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.65

**MEASUREMENTS**

Well Diameter 4.0 (inches) 1st 2nd Final  
Stick Up 2.50 (ft) pH 8.25 8.30 8.30 (std.)  
Ref. Measuring Pt. TIC SC 1620 1630 1630 (umhos/cm)  
Well Elevation \*612.23 (ft./msl) Temp. 13.76 13.80 13.80 (°C)  
Water Level 95.05 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 517.18 (ft./msl)  
Well Bottom Elevation \*459.84 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Slight Odor  
Weather Conditions: 79°F, Sunny, SW winds @ 0-5 mph  
Turbidity: 0.76 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 95.05 - 2.50 = 92.55 (ft.)  
Levels were taken on 06/30/23 @ 1023

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: T03S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-16

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

**PURGING INFORMATION**

Purge Date: 06/30/23 Start Purge: 1136 End Purge: 1154  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.46

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 3.08 (ft) pH 7.42 7.40 7.40 (std.)  
Ref. Measuring Pt. TIC SC 1335 1331 1331 (umhos/cm)  
Well Elevation \* 629.85 (ft./msl) Temp. 14.62 14.62 14.62 (°C)  
Water Level 140.27 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 489.58 (ft./msl) 


  
Well Bottom Elevation \* 456.70 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Slight Turbidity, No Odor  
Weather Conditions: 86°F, Sunny, SW winds e 0-5 mph  
Turbidity: 0.39 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 140.27 - 3.08 = 137.19 (ft)  
Levels were taken on 06/30/23 @ 1131  
\* Total Depth = 172.95

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: T03S Dup  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235848-17

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

**PURGING INFORMATION**

Purge Date: \_\_\_\_\_ Start Purge: \_\_\_\_\_ End Purge: \_\_\_\_\_  
(2400 Hr. Clock)

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

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up \_\_\_\_\_ (ft) pH \_\_\_\_\_ (std.)  
Ref. Measuring Pt. TIC SC \_\_\_\_\_ (umhos/cm)  
Well Elevation \* 629.85 (ft./msl) Temp. \_\_\_\_\_ (°C)  
Water Level \_\_\_\_\_ (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. \_\_\_\_\_ (ft./msl) 


  
Well Bottom Elevation \* 456.70 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: \_\_\_\_\_  
Weather Conditions: \_\_\_\_\_  
Turbidity: \_\_\_\_\_  
Other: \*Reference Measurement  
Depth To Water from L.S. = \_\_\_\_\_  
Levels were taken on \_\_\_\_\_ @ \_\_\_\_\_  
\* Total Depth = 172.95  
\* Sampled @ 1154

(Updated: 07/14/2022)

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





Environment Testing

**Eurofins Chicago**

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

Sample ID: T02S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-18

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

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

**PURGING INFORMATION**

Purge Date: 06/30/23 Start Purge: 1302 End Purge: 1321  
(2400 Hr. Clock)

Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.61

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final

Stick Up 2.33 (ft) pH 7.99 8.01 8.01 (std.)

Ref. Measuring Pt. TIC SC 1409 1418 1418 (umhos/cm)

Well Elevation \* 626.12 (ft./msl) Temp. 22.35 22.37 22.37 (°C)

Water Level 136.45 (ft.) Well Stabilization / Recharge Grid

Ground Water Elev. 489.67 (ft./msl)

Well Bottom Elevation \* 453.40 (ft./msl)


**COMMENTS**

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

Weather Conditions: 83°F, Sunny, SW winds e 10-15 mph

Turbidity: 32.70 NTU

Other: \*Reference Measurement

Depth To Water from L.S. = 136.45 - 2.33 = 134.12 (ft.)

Levels were taken on 06/30/23 @ 1250

\* Total Depth = 172.75

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: T08S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-19

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

**PURGING INFORMATION**

Purge Date: 07/03/23 Start Purge: 0853 End Purge: 0908  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.39

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.38 (ft) pH 8.92 8.90 8.90 (std.)  
Ref. Measuring Pt. TIC SC 1510 1520 1520 (umhos/cm)  
Well Elevation \* 627.55 (ft./msl) Temp. 15.66 15.64 15.64 (°C)  
Water Level 130.90 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 496.65 (ft./msl)  
Well Bottom Elevation \* 447.38 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Colorless, clear, Strong Odor  
Weather Conditions: 77°F, Sunny, N winds e 0-5 mph  
Turbidity: 1.21 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 130.90 - 2.38 = 128.52 (ft)  
Levels were taken on 07/03/23 @ 0848  
\* Total Deth = 180.00

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: T01S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-20

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

**PURGING INFORMATION**

Purge Date: 07/03/23 Start Purge: 1021 End Purge: 1039  
(2400 Hr. Clock)

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

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.48 (ft) pH 7.88 7.90 7.90 (std.)  
Ref. Measuring Pt. TIC SC 1431 1435 1435 (umhos/cm)  
Well Elevation \* 621.84 (ft./msl) Temp. 19.97 19.85 19.85 (°C)  
Water Level 126.02 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 495.82 (ft./msl)  
Well Bottom Elevation \* 451.46 (ft./msl)


**COMMENTS**

Sample Appearance/Odor: Tan, Moderate Turbidity, Slight Odor  
Weather Conditions: 82°F, Sunny, N winds 0-5 mph  
Turbidity: 46.70 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 126.02 - 2.48 = 123.54 (ft.)  
Levels were taken on 07/03/23 @ 1016  
\* Total Depth = 170.00

(Updated: 07/14/2022)

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



Environment Testing

**Eurofins Chicago**

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

Sample ID: T05S  
Facility: Midwest Generation-Joliet #9 CCR  
Job #: 500-235842-21

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

**PURGING INFORMATION**

Purge Date: 07/03/23 Start Purge: 1209 End Purge: 1231  
(2400 Hr. Clock)  
Water Volume in Casing (gallons): N/A Volume Purged (gallons): 0.71

**MEASUREMENTS**

Well Diameter 2.0 (inches) 1st 2nd Final  
Stick Up 2.40 (ft) pH 10.05 10.06 10.06 (std.)  
Ref. Measuring Pt. TIC SC 2420 2420 2420 (umhos/cm)  
Well Elevation \* 623.50 (ft./msl) Temp. 25.44 25.29 25.29 (°C)  
Water Level 126.29 (ft.) Well Stabilization / Recharge Grid  
Ground Water Elev. 497.21 (ft./msl) 


  
Well Bottom Elevation \* 448.35 (ft./msl)

**COMMENTS**

Sample Appearance/Odor: Colorless, Clear, Moderate Odor  
Weather Conditions: 84°F, Sunny, NW winds e 0-5 mph  
Turbidity: ~~46.70~~ NTU 1.69 NTU  
Other: \*Reference Measurement  
Depth To Water from L.S. = 126.29 - 2.40 = 123.89 (ft.)  
Levels were taken on 07/03/23 @ 1204.  
\* Total Deth = 175.00

(Updated: 07/14/2022)

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