

DATA SUMMARY POSTING

Station: Midwest Generation Will County Generating Station

Regulated Unit(s): Pond 1N (IEPA ID No. W1978100011-01)
 Pond 1S (IEPA ID No. W1978100011-02)

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 3rd 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. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements.

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 for Ponds 1N and 1S dated March 31, 2022. 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 2A. Groundwater Turbidity - Pond 1N, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-01	2/23/2021	0.64
	4/10/2021	5.81
	4/25/2021	7.69
	5/3/2021	1.74
	5/24/2021	1.83
	6/7/2021	2.32
	6/25/2021	3.50
	7/12/2021	4.18
	8/2/2021	2.87
	8/23/2021	1.17
	9/24/2021	3.25
	11/19/2021	16.82
	2/21/2022	3.04
	6/15/2022	10.56
	8/24/2022	15.3
MW-02	11/15/2022	19.8
	2/22/2023	19.12
	4/27/2023	4.40
	7/27/2023	7.20
	2/25/2021	8.84
	4/10/2021	9.17
	4/25/2021	12.03
	5/3/2021	2.42
	5/24/2021	2.7
	6/7/2021	1.82
	6/28/2021	3.15
	7/12/2021	4.23
	8/2/2021	3.11
	8/23/2021	1.37
	9/24/2021	4.63
MW-07	11/19/2021	2.1
	2/21/2022	0.45
	6/15/2022	2.69
	8/24/2022	8.71
	11/15/2022	8.21
	2/22/2023	6.07
	4/27/2023	2.90
	7/27/2023	7.40
	3/1/2021	6.11
	4/10/2021	6.19
	4/25/2021	6.98
	5/4/2021	37.65
	5/24/2021	2.54
	6/7/2021	6.21
	6/25/2021	6.02
7/12/2021	5.13	
8/2/2021	2.45	
8/25/2021	7.7	
9/24/2021	4.13	
11/19/2021	7.35	
2/22/2022	-0.02	
6/15/2022	5.58	
8/25/2022	2.27	
11/15/2022	41.3	
2/22/2023	13.55	
4/27/2023	8.90	
7/27/2023	1.00	
MW-14	5/4/2021	6.88
	5/25/2021	3.5
	6/7/2021	2.55
	6/28/2021	7.44
	7/12/2021	4.89
	8/2/2021	9.8
	8/25/2021	11.7
	9/24/2021	6.87
	11/19/2021	5.19
	2/23/2022	45.11
	6/14/2022	3.98
	8/23/2022	2.71
	11/17/2022	2.8
	2/21/2023	6.71
	4/25/2023	5.0
7/25/2023	3.7	
MW-15	5/4/2021	28.65
	5/25/2021	8.89
	6/7/2021	8.82
	6/28/2021	6.48
	7/12/2021	8.52
	8/2/2021	22.71
	8/25/2021	12.4
	9/24/2021	11.44
	11/19/2021	10.83
	2/22/2022	17.05
	6/14/2022	11.83
	8/23/2022	33.2
	11/17/2022	148.2
	2/21/2023	41.83
	4/25/2023	11.2
7/25/2023	35.6	

Table 2B. Groundwater Turbidity - Pond 1S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-03	3/1/2021	0.0
	4/10/2021	1.45
	4/25/2021	3.41
	5/3/2021	1.61
	5/24/2021	2.06
	6/8/2021	2.34
	6/28/2021	2.69
	7/12/2021	4.07
	8/2/2021	1.98
	8/24/2021	5.1
	9/24/2021	4.18
	11/19/2021	0.47
	2/24/2022	-1.1
	6/16/2022	1.7
	8/24/2022	6.4
MW-04	11/15/2022	9.7
	2/22/2023	6.9
	4/27/2023	2.00
	7/27/2023	7.20
	2/22/2021	9.87
	4/10/2021	42.2
	4/25/2021	7.41
	5/3/2021	4.2
	5/24/2021	4.45
	6/8/2021	2.8
	6/28/2021	12.93
	7/12/2021	3.93
	8/2/2021	3.75
	8/24/2021	10.1
	9/24/2021	5.74
11/19/2021	15.15	
2/24/2022	2.04	
6/16/2022	3.13	
8/24/2022	4.7	
11/15/2022	14.2	
2/22/2023	20.1	
4/27/2023	8.40	
7/27/2023	6.00	
MW-08	3/1/2021	2.3
	4/10/2021	270.98
	4/25/2021	26.73
	5/4/2021	6.6
	5/28/2021	6.51
	6/7/2021	4.58
	6/28/2021	5.67
	7/12/2021	6.71
	8/2/2021	14.15
	8/25/2021	8.9
	9/24/2021	7.21
	11/19/2021	2.34
	2/24/2022	40.05
	6/15/2022	5.01
	8/25/2022	9.02
11/17/2022	13.9	
2/23/2023	43.13	
4/27/2023	29.20	
7/26/2023	16.90	
MW-09	3/1/2021	0.86
	4/10/2021	6.91
	4/25/2021	2.08
	5/25/2021	14.12
	6/11/2021	2.39
	6/29/2021	2.97
	7/12/2021	3.94
	8/4/2021	0.0
	8/25/2021	19.9
	9/24/2021	3.67
	11/23/2021	19.07
	2/22/2022	0.59
	6/15/2022	113.77
	8/25/2022	1.93
	11/16/2022	11.73
2/23/2023	10.34	
4/26/2023	2.90	
7/26/2023	6.50	
MW-13	5/4/2021	20.6
	5/25/2021	9.8
	6/7/2021	6.49
	6/28/2021	8.25
	7/12/2021	5.89
	8/2/2021	2.91
	8/26/2021	12.9
	9/24/2021	9.13
	11/23/2021	17.83
	2/23/2022	34.33
	6/14/2022	81.91
	8/23/2022	47.3
	11/16/2022	77.2
	2/21/2023	41.7
	4/25/2023	41.90
7/25/2023	16.70	

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

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

Generated 8/17/2023 8:32:17 AM

JOB DESCRIPTION

Will County 1N/1S CCR

JOB NUMBER

500-237221-1

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Job ID: 500-237221-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-237221-1**

Comments

No additional comments.

Receipt

The samples were received on 7/26/2023 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.7° C, 2.5° C, 2.5° C, 2.7° C and 4.2° C.

Metals

Methods 6020A, 6020B: The continuing calibration verification (CCV) associated with batch 500-726205 recovered above the upper control limit for Beryllium. The samples associated with this CCV 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 sample job 500-237221-1. The samples associated with batch 500-726635 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 Boron and Lithium; therefore, the data have been reported.

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

General Chemistry

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



Method Summary

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

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
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

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

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

Laboratory References:

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

Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-237221-1	MW-08	Water	07/26/23 14:26	07/26/23 16:40
500-237221-2	MW-09	Water	07/26/23 13:10	07/26/23 16:40
500-237221-3	MW-13	Water	07/25/23 11:50	07/26/23 16:40
500-237221-4	MW-14	Water	07/25/23 13:40	07/26/23 16:40
500-237221-5	MW-15	Water	07/25/23 14:53	07/26/23 16:40
500-237221-6	1N/1S Duplicate	Water	07/25/23 00:00	07/26/23 16:40
500-237221-7	MW-01	Water	07/27/23 08:22	07/27/23 16:45
500-237221-8	MW-02	Water	07/27/23 09:16	07/27/23 16:45
500-237221-9	MW-03	Water	07/27/23 10:50	07/27/23 16:45
500-237221-10	MW-04	Water	07/27/23 12:20	07/27/23 16:45
500-237221-11	MW-07	Water	07/27/23 14:11	07/27/23 16:45

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Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-08
Date Collected: 07/26/23 14:26
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-1
Matrix: Water

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		08/01/23 09:15	08/03/23 01:16	1
Arsenic	0.0029		0.0010		mg/L		08/01/23 09:15	08/03/23 01:16	1
Barium	0.056		0.0025		mg/L		08/01/23 09:15	08/03/23 01:16	1
Beryllium	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:16	1
Boron	3.3		0.50		mg/L		08/01/23 09:15	08/04/23 13:17	10
Cadmium	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:16	1
Calcium	140		0.20		mg/L		08/01/23 09:15	08/03/23 01:16	1
Chromium	<0.0050		0.0050		mg/L		08/01/23 09:15	08/03/23 01:16	1
Cobalt	0.0018		0.0010		mg/L		08/01/23 09:15	08/03/23 01:16	1
Lead	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:16	1
Lithium	0.018		0.010		mg/L		08/01/23 09:15	08/04/23 14:53	1
Molybdenum	0.080		0.0050		mg/L		08/01/23 09:15	08/03/23 01:16	1
Selenium	<0.0025		0.0025		mg/L		08/01/23 09:15	08/03/23 01:16	1
Thallium	<0.0020		0.0020		mg/L		08/01/23 09:15	08/03/23 01:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1200		10		mg/L			08/01/23 11:42	1
Chloride (SM 4500 Cl- E)	120		20		mg/L			07/28/23 13:23	10
Fluoride (SM 4500 F C)	0.65		0.10		mg/L			07/27/23 12:13	1
Sulfate (SM 4500 SO4 E)	530		100		mg/L			07/27/23 17:00	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-09
Date Collected: 07/26/23 13:10
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-2
Matrix: Water

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		08/01/23 09:15	08/03/23 01:20	1
Arsenic	0.0086		0.0010		mg/L		08/01/23 09:15	08/03/23 01:20	1
Barium	0.036		0.0025		mg/L		08/01/23 09:15	08/03/23 01:20	1
Beryllium	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:20	1
Boron	2.0		0.50		mg/L		08/01/23 09:15	08/04/23 13:27	10
Cadmium	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:20	1
Calcium	44		0.20		mg/L		08/01/23 09:15	08/03/23 01:20	1
Chromium	<0.0050		0.0050		mg/L		08/01/23 09:15	08/03/23 01:20	1
Cobalt	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:20	1
Lead	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:20	1
Lithium	<0.010		0.010		mg/L		08/01/23 09:15	08/04/23 14:57	1
Molybdenum	0.073		0.0050		mg/L		08/01/23 09:15	08/03/23 01:20	1
Selenium	<0.0025		0.0025		mg/L		08/01/23 09:15	08/03/23 01:20	1
Thallium	<0.0020		0.0020		mg/L		08/01/23 09:15	08/03/23 01:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	730		10		mg/L			08/01/23 11:44	1
Chloride (SM 4500 Cl- E)	190		20		mg/L			07/28/23 13:24	10
Fluoride (SM 4500 F C)	0.49		0.10		mg/L			07/27/23 12:17	1
Sulfate (SM 4500 SO4 E)	250		50		mg/L			07/27/23 17:00	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-13
Date Collected: 07/25/23 11:50
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-3
Matrix: Water

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		08/01/23 09:15	08/03/23 01:30	1
Arsenic	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:30	1
Barium	0.12		0.0025		mg/L		08/01/23 09:15	08/03/23 01:30	1
Beryllium	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:30	1
Boron	1.6		0.25		mg/L		08/01/23 09:15	08/04/23 13:31	5
Cadmium	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:30	1
Calcium	140		0.20		mg/L		08/01/23 09:15	08/03/23 01:30	1
Chromium	<0.0050		0.0050		mg/L		08/01/23 09:15	08/03/23 01:30	1
Cobalt	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:30	1
Lead	0.00060		0.00050		mg/L		08/01/23 09:15	08/03/23 01:30	1
Lithium	<0.010		0.010		mg/L		08/01/23 09:15	08/04/23 15:00	1
Molybdenum	0.014		0.0050		mg/L		08/01/23 09:15	08/03/23 01:30	1
Selenium	0.0088		0.0025		mg/L		08/01/23 09:15	08/03/23 01:30	1
Thallium	<0.0020		0.0020		mg/L		08/01/23 09:15	08/03/23 01:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	960		10		mg/L			07/28/23 09:16	1
Chloride (SM 4500 Cl- E)	170		20		mg/L			07/28/23 13:24	10
Fluoride (SM 4500 F C)	0.35		0.10		mg/L			07/27/23 12:22	1
Sulfate (SM 4500 SO4 E)	240		50		mg/L			07/27/23 17:01	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-14

Lab Sample ID: 500-237221-4

Date Collected: 07/25/23 13:40

Matrix: Water

Date Received: 07/26/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/01/23 09:15	08/03/23 01:34	1
Arsenic	0.0025		0.0010		mg/L		08/01/23 09:15	08/03/23 01:34	1
Barium	0.081		0.0025		mg/L		08/01/23 09:15	08/03/23 01:34	1
Beryllium	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:34	1
Boron	3.8		0.50		mg/L		08/01/23 09:15	08/04/23 13:34	10
Cadmium	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:34	1
Calcium	99		0.20		mg/L		08/01/23 09:15	08/03/23 01:34	1
Chromium	<0.0050		0.0050		mg/L		08/01/23 09:15	08/03/23 01:34	1
Cobalt	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:34	1
Lead	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:34	1
Lithium	0.030		0.010		mg/L		08/01/23 09:15	08/04/23 15:10	1
Molybdenum	0.069		0.0050		mg/L		08/01/23 09:15	08/03/23 01:34	1
Selenium	<0.0025		0.0025		mg/L		08/01/23 09:15	08/03/23 01:34	1
Thallium	<0.0020		0.0020		mg/L		08/01/23 09:15	08/03/23 01:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	970		10		mg/L			07/28/23 09:21	1
Chloride (SM 4500 Cl- E)	110		20		mg/L			07/28/23 13:24	10
Fluoride (SM 4500 F C)	0.57		0.10		mg/L			07/27/23 12:26	1
Sulfate (SM 4500 SO4 E)	440		100		mg/L			07/27/23 17:01	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-15

Lab Sample ID: 500-237221-5

Date Collected: 07/25/23 14:53

Matrix: Water

Date Received: 07/26/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/01/23 09:15	08/03/23 01:37	1
Arsenic	0.0041		0.0010		mg/L		08/01/23 09:15	08/03/23 01:37	1
Barium	0.085		0.0025		mg/L		08/01/23 09:15	08/03/23 01:37	1
Beryllium	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:37	1
Boron	3.5		0.50		mg/L		08/01/23 09:15	08/04/23 13:37	10
Cadmium	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:37	1
Calcium	180		0.20		mg/L		08/01/23 09:15	08/03/23 01:37	1
Chromium	<0.0050		0.0050		mg/L		08/01/23 09:15	08/03/23 01:37	1
Cobalt	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:37	1
Lead	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:37	1
Lithium	0.022		0.010		mg/L		08/01/23 09:15	08/04/23 15:14	1
Molybdenum	0.029		0.0050		mg/L		08/01/23 09:15	08/03/23 01:37	1
Selenium	<0.0025		0.0025		mg/L		08/01/23 09:15	08/03/23 01:37	1
Thallium	<0.0020		0.0020		mg/L		08/01/23 09:15	08/03/23 01:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1300		10		mg/L			07/28/23 09:49	1
Chloride (SM 4500 Cl- E)	110		20		mg/L			07/28/23 13:25	10
Fluoride (SM 4500 F C)	0.54		0.10		mg/L			07/27/23 12:31	1
Sulfate (SM 4500 SO4 E)	590		100		mg/L			07/27/23 17:01	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: 1N/1S Duplicate

Lab Sample ID: 500-237221-6

Date Collected: 07/25/23 00:00

Matrix: Water

Date Received: 07/26/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/01/23 09:15	08/03/23 01:41	1
Arsenic	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:41	1
Barium	0.12		0.0025		mg/L		08/01/23 09:15	08/03/23 01:41	1
Beryllium	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:41	1
Boron	1.6		0.25		mg/L		08/01/23 09:15	08/04/23 13:41	5
Cadmium	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 01:41	1
Calcium	140		0.20		mg/L		08/01/23 09:15	08/03/23 01:41	1
Chromium	<0.0050		0.0050		mg/L		08/01/23 09:15	08/03/23 01:41	1
Cobalt	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 01:41	1
Lead	0.00064		0.00050		mg/L		08/01/23 09:15	08/03/23 01:41	1
Lithium	<0.010		0.010		mg/L		08/01/23 09:15	08/04/23 15:17	1
Molybdenum	0.014		0.0050		mg/L		08/01/23 09:15	08/03/23 01:41	1
Selenium	0.0086		0.0025		mg/L		08/01/23 09:15	08/03/23 01:41	1
Thallium	<0.0020		0.0020		mg/L		08/01/23 09:15	08/03/23 01:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	920		10		mg/L			07/28/23 09:51	1
Chloride (SM 4500 Cl- E)	170		20		mg/L			07/28/23 13:25	10
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			07/27/23 12:35	1
Sulfate (SM 4500 SO4 E)	210		100		mg/L			07/27/23 17:02	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-01
Date Collected: 07/27/23 08:22
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-7
Matrix: Water

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		07/31/23 09:10	08/02/23 21:53	1
Arsenic	<0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 21:53	1
Barium	0.088		0.0025		mg/L		07/31/23 09:10	08/02/23 21:53	1
Beryllium	<0.0010	^+	0.0010		mg/L		07/31/23 09:10	08/02/23 21:53	1
Boron	2.3		0.50		mg/L		07/31/23 09:10	08/04/23 13:58	10
Cadmium	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 21:53	1
Calcium	170		0.20		mg/L		07/31/23 09:10	08/02/23 21:53	1
Chromium	<0.0050		0.0050		mg/L		07/31/23 09:10	08/02/23 21:53	1
Cobalt	<0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 21:53	1
Lead	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 21:53	1
Lithium	0.036		0.010		mg/L		07/31/23 09:10	08/04/23 15:21	1
Molybdenum	0.016		0.0050		mg/L		07/31/23 09:10	08/02/23 21:53	1
Selenium	0.013		0.0025		mg/L		07/31/23 09:10	08/02/23 21:53	1
Thallium	<0.0020		0.0020		mg/L		07/31/23 09:10	08/02/23 21:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			08/01/23 11:46	1
Chloride (SM 4500 Cl- E)	29		4.0		mg/L			07/28/23 13:25	2
Fluoride (SM 4500 F C)	0.58		0.10		mg/L			08/02/23 12:45	1
Sulfate (SM 4500 SO4 E)	320		100		mg/L			08/08/23 12:31	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-02
Date Collected: 07/27/23 09:16
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-8
Matrix: Water

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		07/31/23 09:10	08/02/23 21:56	1
Arsenic	0.011		0.0010		mg/L		07/31/23 09:10	08/02/23 21:56	1
Barium	0.056		0.0025		mg/L		07/31/23 09:10	08/02/23 21:56	1
Beryllium	<0.0010	^+	0.0010		mg/L		07/31/23 09:10	08/02/23 21:56	1
Boron	5.8		1.0		mg/L		07/31/23 09:10	08/04/23 14:02	20
Cadmium	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 21:56	1
Calcium	89		0.20		mg/L		07/31/23 09:10	08/02/23 21:56	1
Chromium	<0.0050		0.0050		mg/L		07/31/23 09:10	08/02/23 21:56	1
Cobalt	<0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 21:56	1
Lead	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 21:56	1
Lithium	0.046		0.010		mg/L		07/31/23 09:10	08/04/23 15:24	1
Molybdenum	0.073		0.0050		mg/L		07/31/23 09:10	08/02/23 21:56	1
Selenium	<0.0025		0.0025		mg/L		07/31/23 09:10	08/02/23 21:56	1
Thallium	<0.0020		0.0020		mg/L		07/31/23 09:10	08/02/23 21:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	990		10		mg/L			08/01/23 11:48	1
Chloride (SM 4500 Cl- E)	28		2.0		mg/L			07/28/23 13:26	1
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			08/02/23 12:50	1
Sulfate (SM 4500 SO4 E)	490		100		mg/L			08/08/23 12:32	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-03
Date Collected: 07/27/23 10:50
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-9
Matrix: Water

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		07/31/23 09:10	08/02/23 22:00	1
Arsenic	0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 22:00	1
Barium	0.11		0.0025		mg/L		07/31/23 09:10	08/02/23 22:00	1
Beryllium	<0.0010	^+	0.0010		mg/L		07/31/23 09:10	08/02/23 22:00	1
Boron	3.5		0.50		mg/L		07/31/23 09:10	08/04/23 14:05	10
Cadmium	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 22:00	1
Calcium	160		0.20		mg/L		07/31/23 09:10	08/02/23 22:00	1
Chromium	<0.0050		0.0050		mg/L		07/31/23 09:10	08/02/23 22:00	1
Cobalt	0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 22:00	1
Lead	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 22:00	1
Lithium	0.043		0.010		mg/L		07/31/23 09:10	08/04/23 15:28	1
Molybdenum	0.013		0.0050		mg/L		07/31/23 09:10	08/02/23 22:00	1
Selenium	0.0053		0.0025		mg/L		07/31/23 09:10	08/02/23 22:00	1
Thallium	<0.0020		0.0020		mg/L		07/31/23 09:10	08/02/23 22:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	930		10		mg/L			08/01/23 11:50	1
Chloride (SM 4500 Cl- E)	16		2.0		mg/L			07/28/23 13:26	1
Fluoride (SM 4500 F C)	0.25		0.10		mg/L			08/02/23 12:54	1
Sulfate (SM 4500 SO4 E)	280		50		mg/L			08/08/23 12:32	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-04

Lab Sample ID: 500-237221-10

Date Collected: 07/27/23 12:20

Matrix: Water

Date Received: 07/27/23 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/31/23 09:10	08/02/23 22:10	1
Arsenic	0.0017		0.0010		mg/L		07/31/23 09:10	08/02/23 22:10	1
Barium	0.041		0.0025		mg/L		07/31/23 09:10	08/02/23 22:10	1
Beryllium	<0.0010	^+	0.0010		mg/L		07/31/23 09:10	08/02/23 22:10	1
Boron	4.9		1.0		mg/L		07/31/23 09:10	08/04/23 14:08	20
Cadmium	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 22:10	1
Calcium	300		4.0		mg/L		07/31/23 09:10	08/04/23 14:08	20
Chromium	<0.0050		0.0050		mg/L		07/31/23 09:10	08/02/23 22:10	1
Cobalt	0.0015		0.0010		mg/L		07/31/23 09:10	08/02/23 22:10	1
Lead	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 22:10	1
Lithium	0.021		0.010		mg/L		07/31/23 09:10	08/04/23 15:31	1
Molybdenum	0.019		0.0050		mg/L		07/31/23 09:10	08/02/23 22:10	1
Selenium	0.026		0.0025		mg/L		07/31/23 09:10	08/02/23 22:10	1
Thallium	<0.0020		0.0020		mg/L		07/31/23 09:10	08/02/23 22:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 08:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1700		10		mg/L			08/01/23 11:52	1
Chloride (SM 4500 Cl- E)	20		2.0		mg/L			07/28/23 13:26	1
Fluoride (SM 4500 F C)	0.36		0.10		mg/L			08/02/23 12:59	1
Sulfate (SM 4500 SO4 E)	790		100		mg/L			08/08/23 12:32	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-07

Lab Sample ID: 500-237221-11

Date Collected: 07/27/23 14:11

Matrix: Water

Date Received: 07/27/23 16:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/31/23 09:10	08/02/23 22:13	1
Arsenic	0.0026		0.0010		mg/L		07/31/23 09:10	08/02/23 22:13	1
Barium	0.052		0.0025		mg/L		07/31/23 09:10	08/02/23 22:13	1
Beryllium	<0.0010	^+	0.0010		mg/L		07/31/23 09:10	08/02/23 22:13	1
Boron	3.2		0.50		mg/L		07/31/23 09:10	08/04/23 14:12	10
Cadmium	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 22:13	1
Calcium	81		0.20		mg/L		07/31/23 09:10	08/02/23 22:13	1
Chromium	<0.0050		0.0050		mg/L		07/31/23 09:10	08/02/23 22:13	1
Cobalt	<0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 22:13	1
Lead	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 22:13	1
Lithium	0.019		0.010		mg/L		07/31/23 09:10	08/04/23 15:35	1
Molybdenum	0.072		0.0050		mg/L		07/31/23 09:10	08/02/23 22:13	1
Selenium	<0.0025		0.0025		mg/L		07/31/23 09:10	08/02/23 22:13	1
Thallium	<0.0020		0.0020		mg/L		07/31/23 09:10	08/02/23 22:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			08/01/23 11:54	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			07/28/23 13:26	10
Fluoride (SM 4500 F C)	0.65		0.10		mg/L			08/02/23 13:04	1
Sulfate (SM 4500 SO4 E)	470		100		mg/L			08/08/23 12:33	20

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Qualifiers

Metals

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

Glossary

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

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Metals

Prep Batch: 725588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-7	MW-01	Total Recoverable	Water	3005A	
500-237221-8	MW-02	Total Recoverable	Water	3005A	
500-237221-9	MW-03	Total Recoverable	Water	3005A	
500-237221-10	MW-04	Total Recoverable	Water	3005A	
500-237221-11	MW-07	Total Recoverable	Water	3005A	
MB 500-725588/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-725588/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 725771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total Recoverable	Water	3005A	
500-237221-2	MW-09	Total Recoverable	Water	3005A	
500-237221-3	MW-13	Total Recoverable	Water	3005A	
500-237221-4	MW-14	Total Recoverable	Water	3005A	
500-237221-5	MW-15	Total Recoverable	Water	3005A	
500-237221-6	1N/1S Duplicate	Total Recoverable	Water	3005A	
MB 500-725771/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-725771/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 726205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total Recoverable	Water	6020A	725771
500-237221-2	MW-09	Total Recoverable	Water	6020A	725771
500-237221-3	MW-13	Total Recoverable	Water	6020A	725771
500-237221-4	MW-14	Total Recoverable	Water	6020A	725771
500-237221-5	MW-15	Total Recoverable	Water	6020A	725771
500-237221-6	1N/1S Duplicate	Total Recoverable	Water	6020A	725771
500-237221-7	MW-01	Total Recoverable	Water	6020A	725588
500-237221-8	MW-02	Total Recoverable	Water	6020A	725588
500-237221-9	MW-03	Total Recoverable	Water	6020A	725588
500-237221-10	MW-04	Total Recoverable	Water	6020A	725588
500-237221-11	MW-07	Total Recoverable	Water	6020A	725588
MB 500-725588/1-A	Method Blank	Total Recoverable	Water	6020A	725588
MB 500-725771/1-A	Method Blank	Total Recoverable	Water	6020A	725771
LCS 500-725588/2-A	Lab Control Sample	Total Recoverable	Water	6020A	725588
LCS 500-725771/2-A	Lab Control Sample	Total Recoverable	Water	6020A	725771

Analysis Batch: 726635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total Recoverable	Water	6020A	725771
500-237221-1	MW-08	Total Recoverable	Water	6020A	725771
500-237221-2	MW-09	Total Recoverable	Water	6020A	725771
500-237221-2	MW-09	Total Recoverable	Water	6020A	725771
500-237221-3	MW-13	Total Recoverable	Water	6020A	725771
500-237221-3	MW-13	Total Recoverable	Water	6020A	725771
500-237221-4	MW-14	Total Recoverable	Water	6020A	725771
500-237221-4	MW-14	Total Recoverable	Water	6020A	725771
500-237221-5	MW-15	Total Recoverable	Water	6020A	725771
500-237221-5	MW-15	Total Recoverable	Water	6020A	725771
500-237221-6	1N/1S Duplicate	Total Recoverable	Water	6020A	725771
500-237221-6	1N/1S Duplicate	Total Recoverable	Water	6020A	725771

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Metals (Continued)

Analysis Batch: 726635 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-7	MW-01	Total Recoverable	Water	6020A	725588
500-237221-7	MW-01	Total Recoverable	Water	6020A	725588
500-237221-8	MW-02	Total Recoverable	Water	6020A	725588
500-237221-8	MW-02	Total Recoverable	Water	6020A	725588
500-237221-9	MW-03	Total Recoverable	Water	6020A	725588
500-237221-9	MW-03	Total Recoverable	Water	6020A	725588
500-237221-10	MW-04	Total Recoverable	Water	6020A	725588
500-237221-10	MW-04	Total Recoverable	Water	6020A	725588
500-237221-11	MW-07	Total Recoverable	Water	6020A	725588
500-237221-11	MW-07	Total Recoverable	Water	6020A	725588
MB 500-725588/1-A	Method Blank	Total Recoverable	Water	6020A	725588
MB 500-725771/1-A	Method Blank	Total Recoverable	Water	6020A	725771
LCS 500-725588/2-A	Lab Control Sample	Total Recoverable	Water	6020A	725588
LCS 500-725771/2-A	Lab Control Sample	Total Recoverable	Water	6020A	725771

Prep Batch: 727486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total/NA	Water	7470A	
500-237221-2	MW-09	Total/NA	Water	7470A	
500-237221-3	MW-13	Total/NA	Water	7470A	
500-237221-4	MW-14	Total/NA	Water	7470A	
500-237221-5	MW-15	Total/NA	Water	7470A	
500-237221-6	1N/1S Duplicate	Total/NA	Water	7470A	
500-237221-7	MW-01	Total/NA	Water	7470A	
500-237221-8	MW-02	Total/NA	Water	7470A	
500-237221-9	MW-03	Total/NA	Water	7470A	
500-237221-10	MW-04	Total/NA	Water	7470A	
500-237221-11	MW-07	Total/NA	Water	7470A	
MB 500-727486/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-727486/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-237221-7 MS	MW-01	Total/NA	Water	7470A	
500-237221-7 MSD	MW-01	Total/NA	Water	7470A	
500-237221-7 DU	MW-01	Total/NA	Water	7470A	

Analysis Batch: 727670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total/NA	Water	7470A	727486
500-237221-2	MW-09	Total/NA	Water	7470A	727486
500-237221-3	MW-13	Total/NA	Water	7470A	727486
500-237221-4	MW-14	Total/NA	Water	7470A	727486
500-237221-5	MW-15	Total/NA	Water	7470A	727486
500-237221-6	1N/1S Duplicate	Total/NA	Water	7470A	727486
500-237221-7	MW-01	Total/NA	Water	7470A	727486
500-237221-8	MW-02	Total/NA	Water	7470A	727486
500-237221-9	MW-03	Total/NA	Water	7470A	727486
500-237221-10	MW-04	Total/NA	Water	7470A	727486
500-237221-11	MW-07	Total/NA	Water	7470A	727486
MB 500-727486/12-A	Method Blank	Total/NA	Water	7470A	727486
LCS 500-727486/13-A	Lab Control Sample	Total/NA	Water	7470A	727486
500-237221-7 MS	MW-01	Total/NA	Water	7470A	727486
500-237221-7 MSD	MW-01	Total/NA	Water	7470A	727486

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Metals (Continued)

Analysis Batch: 727670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-7 DU	MW-01	Total/NA	Water	7470A	727486

General Chemistry

Analysis Batch: 725196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total/NA	Water	SM 4500 F C	
500-237221-2	MW-09	Total/NA	Water	SM 4500 F C	
500-237221-3	MW-13	Total/NA	Water	SM 4500 F C	
500-237221-4	MW-14	Total/NA	Water	SM 4500 F C	
500-237221-5	MW-15	Total/NA	Water	SM 4500 F C	
500-237221-6	1N/1S Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-725196/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-725196/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 725237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-237221-2	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-237221-3	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-237221-4	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-237221-5	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-237221-6	1N/1S Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-725237/133	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-725237/134	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 725326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-3	MW-13	Total/NA	Water	SM 2540C	
500-237221-4	MW-14	Total/NA	Water	SM 2540C	
500-237221-5	MW-15	Total/NA	Water	SM 2540C	
500-237221-6	1N/1S Duplicate	Total/NA	Water	SM 2540C	
MB 500-725326/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-725326/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-237221-3 DU	MW-13	Total/NA	Water	SM 2540C	
500-237221-4 DU	MW-14	Total/NA	Water	SM 2540C	

Analysis Batch: 725450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total/NA	Water	SM 4500 CI- E	
500-237221-2	MW-09	Total/NA	Water	SM 4500 CI- E	
500-237221-3	MW-13	Total/NA	Water	SM 4500 CI- E	
500-237221-4	MW-14	Total/NA	Water	SM 4500 CI- E	
500-237221-5	MW-15	Total/NA	Water	SM 4500 CI- E	
500-237221-6	1N/1S Duplicate	Total/NA	Water	SM 4500 CI- E	
500-237221-7	MW-01	Total/NA	Water	SM 4500 CI- E	
500-237221-8	MW-02	Total/NA	Water	SM 4500 CI- E	
500-237221-9	MW-03	Total/NA	Water	SM 4500 CI- E	
500-237221-10	MW-04	Total/NA	Water	SM 4500 CI- E	
500-237221-11	MW-07	Total/NA	Water	SM 4500 CI- E	
MB 500-725450/46	Method Blank	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

General Chemistry (Continued)

Analysis Batch: 725450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-725450/47	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-237221-9 MS	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-237221-9 MSD	MW-03	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 725803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total/NA	Water	SM 2540C	
500-237221-2	MW-09	Total/NA	Water	SM 2540C	
500-237221-7	MW-01	Total/NA	Water	SM 2540C	
500-237221-8	MW-02	Total/NA	Water	SM 2540C	
500-237221-9	MW-03	Total/NA	Water	SM 2540C	
500-237221-10	MW-04	Total/NA	Water	SM 2540C	
500-237221-11	MW-07	Total/NA	Water	SM 2540C	
MB 500-725803/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-725803/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 726049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-7	MW-01	Total/NA	Water	SM 4500 F C	
500-237221-8	MW-02	Total/NA	Water	SM 4500 F C	
500-237221-9	MW-03	Total/NA	Water	SM 4500 F C	
500-237221-10	MW-04	Total/NA	Water	SM 4500 F C	
500-237221-11	MW-07	Total/NA	Water	SM 4500 F C	
MB 500-726049/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-726049/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 726931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-7	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-237221-8	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-237221-9	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-237221-10	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-237221-11	MW-07	Total/NA	Water	SM 4500 SO4 E	
MB 500-726931/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-726931/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-725588/1-A
Matrix: Water
Analysis Batch: 726205

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 725588

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		07/31/23 09:10	08/02/23 20:16	1
Arsenic	<0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 20:16	1
Barium	<0.0025		0.0025		mg/L		07/31/23 09:10	08/02/23 20:16	1
Beryllium	<0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 20:16	1
Boron	<0.050		0.050		mg/L		07/31/23 09:10	08/02/23 20:16	1
Cadmium	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 20:16	1
Calcium	<0.20		0.20		mg/L		07/31/23 09:10	08/02/23 20:16	1
Chromium	<0.0050		0.0050		mg/L		07/31/23 09:10	08/02/23 20:16	1
Cobalt	<0.0010		0.0010		mg/L		07/31/23 09:10	08/02/23 20:16	1
Lead	<0.00050		0.00050		mg/L		07/31/23 09:10	08/02/23 20:16	1
Lithium	<0.010		0.010		mg/L		07/31/23 09:10	08/02/23 20:16	1
Molybdenum	<0.0050		0.0050		mg/L		07/31/23 09:10	08/02/23 20:16	1
Selenium	<0.0025		0.0025		mg/L		07/31/23 09:10	08/02/23 20:16	1
Thallium	<0.0020		0.0020		mg/L		07/31/23 09:10	08/02/23 20:16	1

Lab Sample ID: MB 500-725588/1-A
Matrix: Water
Analysis Batch: 726635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 725588

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		07/31/23 09:10	08/04/23 13:51	1
Lithium	<0.010		0.010		mg/L		07/31/23 09:10	08/04/23 13:51	1

Lab Sample ID: LCS 500-725588/2-A
Matrix: Water
Analysis Batch: 726205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 725588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Antimony	0.500	0.497		mg/L		99	80 - 120	
Arsenic	0.100	0.0971		mg/L		97	80 - 120	
Barium	0.500	0.518		mg/L		104	80 - 120	
Beryllium	0.0500	0.0528		mg/L		106	80 - 120	
Boron	1.00	1.04		mg/L		104	80 - 120	
Cadmium	0.0500	0.0502		mg/L		100	80 - 120	
Calcium	10.0	10.5		mg/L		105	80 - 120	
Chromium	0.200	0.204		mg/L		102	80 - 120	
Cobalt	0.500	0.512		mg/L		102	80 - 120	
Lead	0.100	0.106		mg/L		106	80 - 120	
Lithium	0.100	0.103		mg/L		103	80 - 120	
Molybdenum	1.00	0.969		mg/L		97	80 - 120	
Selenium	0.100	0.0981		mg/L		98	80 - 120	
Thallium	0.100	0.107		mg/L		107	80 - 120	

Lab Sample ID: LCS 500-725588/2-A
Matrix: Water
Analysis Batch: 726635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 725588

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	Limits
Boron	1.00	1.04		mg/L		104	80 - 120	

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

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

Lab Sample ID: LCS 500-725588/2-A
Matrix: Water
Analysis Batch: 726635

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 725588

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

Lab Sample ID: MB 500-725771/1-A
Matrix: Water
Analysis Batch: 726205

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 725771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/01/23 09:15	08/03/23 00:07	1
Arsenic	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 00:07	1
Barium	<0.0025		0.0025		mg/L		08/01/23 09:15	08/03/23 00:07	1
Beryllium	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 00:07	1
Cadmium	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 00:07	1
Calcium	<0.20		0.20		mg/L		08/01/23 09:15	08/03/23 00:07	1
Chromium	<0.0050		0.0050		mg/L		08/01/23 09:15	08/03/23 00:07	1
Cobalt	<0.0010		0.0010		mg/L		08/01/23 09:15	08/03/23 00:07	1
Lead	<0.00050		0.00050		mg/L		08/01/23 09:15	08/03/23 00:07	1
Molybdenum	<0.0050		0.0050		mg/L		08/01/23 09:15	08/03/23 00:07	1
Selenium	<0.0025		0.0025		mg/L		08/01/23 09:15	08/03/23 00:07	1
Thallium	<0.0020		0.0020		mg/L		08/01/23 09:15	08/03/23 00:07	1

Lab Sample ID: MB 500-725771/1-A
Matrix: Water
Analysis Batch: 726635

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 725771

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		08/01/23 09:15	08/04/23 12:46	1
Lithium	<0.010		0.010		mg/L		08/01/23 09:15	08/04/23 12:46	1

Lab Sample ID: LCS 500-725771/2-A
Matrix: Water
Analysis Batch: 726205

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 725771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.510		mg/L		102	80 - 120
Arsenic	0.100	0.0877		mg/L		88	80 - 120
Barium	2.00	1.99		mg/L		99	80 - 120
Beryllium	0.0500	0.0511		mg/L		102	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	10.6		mg/L		106	80 - 120
Chromium	0.200	0.211		mg/L		106	80 - 120
Cobalt	0.500	0.530		mg/L		106	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Molybdenum	1.00	0.978		mg/L		98	80 - 120
Selenium	0.100	0.0964		mg/L		96	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

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

Lab Sample ID: LCS 500-725771/2-A
 Matrix: Water
 Analysis Batch: 726635

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 725771

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.02		mg/L		102	80 - 120
Lithium	0.500	0.508		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-727486/12-A
 Matrix: Water
 Analysis Batch: 727670

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 727486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/11/23 10:00	08/14/23 07:23	1

Lab Sample ID: LCS 500-727486/13-A
 Matrix: Water
 Analysis Batch: 727670

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 727486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00205		mg/L		102	80 - 120

Lab Sample ID: 500-237221-7 MS
 Matrix: Water
 Analysis Batch: 727670

Client Sample ID: MW-01
 Prep Type: Total/NA
 Prep Batch: 727486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 500-237221-7 MSD
 Matrix: Water
 Analysis Batch: 727670

Client Sample ID: MW-01
 Prep Type: Total/NA
 Prep Batch: 727486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	0	20

Lab Sample ID: 500-237221-7 DU
 Matrix: Water
 Analysis Batch: 727670

Client Sample ID: MW-01
 Prep Type: Total/NA
 Prep Batch: 727486

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

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

Lab Sample ID: MB 500-725326/1
 Matrix: Water
 Analysis Batch: 725326

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			07/28/23 09:08	1

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

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

Lab Sample ID: LCS 500-725326/2
Matrix: Water
Analysis Batch: 725326

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	286		mg/L		114	80 - 120

Lab Sample ID: 500-237221-3 DU
Matrix: Water
Analysis Batch: 725326

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	960		958		mg/L		0.2	5

Lab Sample ID: 500-237221-4 DU
Matrix: Water
Analysis Batch: 725326

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	970		978		mg/L		0.8	5

Lab Sample ID: MB 500-725803/1
Matrix: Water
Analysis Batch: 725803

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			08/01/23 11:23	1

Lab Sample ID: LCS 500-725803/2
Matrix: Water
Analysis Batch: 725803

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	294		mg/L		118	80 - 120

Method: SM 4500 CI- E - Chloride, Total

Lab Sample ID: MB 500-725450/46
Matrix: Water
Analysis Batch: 725450

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			07/28/23 13:23	1

Lab Sample ID: LCS 500-725450/47
Matrix: Water
Analysis Batch: 725450

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		100	85 - 115

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

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

Lab Sample ID: 500-237221-9 MS
 Matrix: Water
 Analysis Batch: 725450

Client Sample ID: MW-03
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	16		20.0	35.5		mg/L		95	75 - 125

Lab Sample ID: 500-237221-9 MSD
 Matrix: Water
 Analysis Batch: 725450

Client Sample ID: MW-03
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	16		20.0	35.5		mg/L		95	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-725196/3
 Matrix: Water
 Analysis Batch: 725196

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			07/27/23 11:14	1

Lab Sample ID: LCS 500-725196/4
 Matrix: Water
 Analysis Batch: 725196

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.3		mg/L		103	90 - 119

Lab Sample ID: MB 500-726049/3
 Matrix: Water
 Analysis Batch: 726049

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			08/02/23 11:43	1

Lab Sample ID: LCS 500-726049/4
 Matrix: Water
 Analysis Batch: 726049

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-725237/133
 Matrix: Water
 Analysis Batch: 725237

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			07/27/23 16:59	1

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

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

Lab Sample ID: LCS 500-725237/134
Matrix: Water
Analysis Batch: 725237

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.9		mg/L		104	88 - 123

Lab Sample ID: MB 500-726931/16
Matrix: Water
Analysis Batch: 726931

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			08/08/23 12:30	1

Lab Sample ID: LCS 500-726931/17
Matrix: Water
Analysis Batch: 726931

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.8		mg/L		109	88 - 123


Eurofins Chicago

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

Chain of Custody Record

MKE 232

eurofins Environment Testing

Client Information		Sampler: <u>IAN JOHN HOWESEN</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-114450-45943 1	
Client Contact: Patrick Allenstein		Phone: <u>630 325 1300</u>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1	
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested  500-237221 COC				Job #: <u>500-237221</u>	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:						Preservation Codes:	
City: Brookfield		TAT Requested (days):		A - HCL		M - Hexane			
State, Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		B - NaOH		N - None			
Phone:		PO #: 4502116506		C - Zn Acetate		O - AsNaO2			
Email: patricka@kprginc.com		WO #:		D - Nitric Acid		P - Na2O4S			
Project Name: Will County 1N/1S Event Desc: Quarterly GW Monitoring CCR		Project #: 50011609		E - NaHSO4		Q - Na2SO3			
Site: Illinois		SSOW#:		F - MeOH		R - Na2S2O3			
				G - Amchlor		S - H2SO4			
				H - Ascorbic Acid		T - TSP Dodecahydrate			
				I - Ice		U - Acetone			
				J - DI Water		V - MCAA			
				K - EDTA		W - pH 4-5			
				L - EDTA		Y - Trizma			
				Other:		Z - other (specify)			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	
MW-01		—		—		—		Water	
MW-02		—		—		—		Water	
MW-03		—		—		—		Water	
MW-04		—		—		—		Water	
MW-07		—		—		—		Water	
1 MW-08		7-26-23		14:26		G		Water	
2 MW-09		7-26-23		13:10		G		Water	
3 MW-13		7-25-23		11:50		G		Water	
4 MW-14		7-25-23		13:40		G		Water	
5 MW-15		7-25-23		14:53		G		Water	
6 1N/1S Duplicate		7-25-23		—		G		Water	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements.				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <u>[Signature]</u>		Date/Time: <u>7-26-23 16:40</u>		Company: <u>KPRG</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>7/26/23 1640</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>2.9 -> 2.5, 4.6 -> 4.2, 2.1 -> 1.7</u>					



Eurofins Chicago


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

Chain of Custody Record

MKE 232



Environment Testing

Client Information		Sampler: <i>Jan Scott Howison</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s):		COC No: 500-114450-45943 1			
Client Contact: Patrick Allenstein		Phone: <i>630 325 1800</i>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1			
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested				Job #: <i>500-237221</i>			
Address: 14685 West Lisbon Road, Suite 1A		Due Date Requested:		 <p>500-237221 COC</p>				Preservation Codes:			
City: Brookfield		TAT Requested (days):						A - HCL		M - Hexane	
State, Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						B - NaOH		N - None	
Phone:		PO #: 4502116506						C - Zn Acetate		O - AsNaO2	
Email: patricka@kprginc.com		WO #:						D - Nitric Acid		P - Na2O4S	
Project Name: Will County 1N/1S Event Desc: Quarterly GW Monitoring <i>CCR</i>		Project #: 50011609		E - NaHSO4		Q - Na2SO3		R - Na2S2O3			
Site: Illinois		SSOW#:		F - MeOH		S - H2SO4		T - TSP Dodecahydrate			
				G - Amchlor		U - Acetone		V - MCAA			
				H - Ascorbic Acid		W - pH 4-5		Y - Trizma			
				I - Ice		X - EDTA		Z - other (specify)			
				J - DI Water		Other:					
				K - EDTA							
				L - EDA							
				Matrix (W=water, G=solid, O=waste/oil, BT=tissue, A=Air)							
				Sample Date		Sample Time		Sample Type (C=Comp, G=grab)			
								Special Instructions/Note:			
7 MW-01		7-27-23 08:22		G		Water		NN X X X			
8 MW-02		7-27-23 09:16		G		Water		NN X X X			
9 MW-03		7-27-23 10:50		G		Water		NN X X X			
10 MW-04		7-27-23 12:20		G		Water		NN X X X			
11 MW-07		7-27-23 14:11		G		Water		NN X X X			
MW-08		---		---		Water					
MW-09		---		---		Water					
MW-13		---		---		Water					
MW-14		---		---		Water					
MW-15		---		---		Water					
1N/1S Duplicate		---		---		Water					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV Other (specify)					Special Instructions/QC Requirements.						
Empty Kit Relinquished by		Date:		Time		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: 7-27-23 16:45		Company: <i>[Signature]</i>		Received by: Stephanie Hemondy		Date/Time: 7/27/23 16:45		Company: EEIA	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks				2.9-2.5, 31-2.7			

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-237221-1

Login Number: 237221

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5,4.2,1.7,2.5,2.7
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: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-08
Date Collected: 07/26/23 14:26
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/03/23 01:16
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		10	726635	FXG	EET CHI	08/04/23 13:17
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 14:53
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:29
Total/NA	Analysis	SM 2540C		1	725803	MB	EET CHI	08/01/23 11:42
Total/NA	Analysis	SM 4500 CI- E		10	725450	MM	EET CHI	07/28/23 13:23
Total/NA	Analysis	SM 4500 F C		1	725196	EH	EET CHI	07/27/23 12:13
Total/NA	Analysis	SM 4500 SO4 E		20	725237	MM	EET CHI	07/27/23 17:00

Client Sample ID: MW-09
Date Collected: 07/26/23 13:10
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/03/23 01:20
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		10	726635	FXG	EET CHI	08/04/23 13:27
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 14:57
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:32
Total/NA	Analysis	SM 2540C		1	725803	MB	EET CHI	08/01/23 11:44
Total/NA	Analysis	SM 4500 CI- E		10	725450	MM	EET CHI	07/28/23 13:24
Total/NA	Analysis	SM 4500 F C		1	725196	EH	EET CHI	07/27/23 12:17
Total/NA	Analysis	SM 4500 SO4 E		10	725237	MM	EET CHI	07/27/23 17:00

Client Sample ID: MW-13
Date Collected: 07/25/23 11:50
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/03/23 01:30
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		5	726635	FXG	EET CHI	08/04/23 13:31
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:00
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:34

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-13

Date Collected: 07/25/23 11:50

Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	725326	MB	EET CHI	07/28/23 09:16
Total/NA	Analysis	SM 4500 Cl- E		10	725450	MM	EET CHI	07/28/23 13:24
Total/NA	Analysis	SM 4500 F C		1	725196	EH	EET CHI	07/27/23 12:22
Total/NA	Analysis	SM 4500 SO4 E		10	725237	MM	EET CHI	07/27/23 17:01

Client Sample ID: MW-14

Date Collected: 07/25/23 13:40

Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/03/23 01:34
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		10	726635	FXG	EET CHI	08/04/23 13:34
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:10
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:36
Total/NA	Analysis	SM 2540C		1	725326	MB	EET CHI	07/28/23 09:21
Total/NA	Analysis	SM 4500 Cl- E		10	725450	MM	EET CHI	07/28/23 13:24
Total/NA	Analysis	SM 4500 F C		1	725196	EH	EET CHI	07/27/23 12:26
Total/NA	Analysis	SM 4500 SO4 E		20	725237	MM	EET CHI	07/27/23 17:01

Client Sample ID: MW-15

Date Collected: 07/25/23 14:53

Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/03/23 01:37
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		10	726635	FXG	EET CHI	08/04/23 13:37
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:14
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:38
Total/NA	Analysis	SM 2540C		1	725326	MB	EET CHI	07/28/23 09:49
Total/NA	Analysis	SM 4500 Cl- E		10	725450	MM	EET CHI	07/28/23 13:25
Total/NA	Analysis	SM 4500 F C		1	725196	EH	EET CHI	07/27/23 12:31
Total/NA	Analysis	SM 4500 SO4 E		20	725237	MM	EET CHI	07/27/23 17:01

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: 1N/1S Duplicate

Lab Sample ID: 500-237221-6

Date Collected: 07/25/23 00:00

Matrix: Water

Date Received: 07/26/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/03/23 01:41
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		5	726635	FXG	EET CHI	08/04/23 13:41
Total Recoverable	Prep	3005A			725771	BDE	EET CHI	08/01/23 09:15 - 08/01/23 09:45 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:17
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:40
Total/NA	Analysis	SM 2540C		1	725326	MB	EET CHI	07/28/23 09:51
Total/NA	Analysis	SM 4500 Cl- E		10	725450	MM	EET CHI	07/28/23 13:25
Total/NA	Analysis	SM 4500 F C		1	725196	EH	EET CHI	07/27/23 12:35
Total/NA	Analysis	SM 4500 SO4 E		20	725237	MM	EET CHI	07/27/23 17:02

Client Sample ID: MW-01

Lab Sample ID: 500-237221-7

Date Collected: 07/27/23 08:22

Matrix: Water

Date Received: 07/27/23 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/02/23 21:53
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		10	726635	FXG	EET CHI	08/04/23 13:58
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:21
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:48
Total/NA	Analysis	SM 2540C		1	725803	MB	EET CHI	08/01/23 11:46
Total/NA	Analysis	SM 4500 Cl- E		2	725450	MM	EET CHI	07/28/23 13:25
Total/NA	Analysis	SM 4500 F C		1	726049	EH	EET CHI	08/02/23 12:45
Total/NA	Analysis	SM 4500 SO4 E		20	726931	MM	EET CHI	08/08/23 12:31

Client Sample ID: MW-02

Lab Sample ID: 500-237221-8

Date Collected: 07/27/23 09:16

Matrix: Water

Date Received: 07/27/23 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/02/23 21:56
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		20	726635	FXG	EET CHI	08/04/23 14:02
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:24
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:56

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-02
Date Collected: 07/27/23 09:16
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	725803	MB	EET CHI	08/01/23 11:48
Total/NA	Analysis	SM 4500 CI- E		1	725450	MM	EET CHI	07/28/23 13:26
Total/NA	Analysis	SM 4500 F C		1	726049	EH	EET CHI	08/02/23 12:50
Total/NA	Analysis	SM 4500 SO4 E		20	726931	MM	EET CHI	08/08/23 12:32

Client Sample ID: MW-03
Date Collected: 07/27/23 10:50
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/02/23 22:00
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		10	726635	FXG	EET CHI	08/04/23 14:05
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:28
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 07:58
Total/NA	Analysis	SM 2540C		1	725803	MB	EET CHI	08/01/23 11:50
Total/NA	Analysis	SM 4500 CI- E		1	725450	MM	EET CHI	07/28/23 13:26
Total/NA	Analysis	SM 4500 F C		1	726049	EH	EET CHI	08/02/23 12:54
Total/NA	Analysis	SM 4500 SO4 E		10	726931	MM	EET CHI	08/08/23 12:32

Client Sample ID: MW-04
Date Collected: 07/27/23 12:20
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/02/23 22:10
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		20	726635	FXG	EET CHI	08/04/23 14:08
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:31
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 08:00
Total/NA	Analysis	SM 2540C		1	725803	MB	EET CHI	08/01/23 11:52
Total/NA	Analysis	SM 4500 CI- E		1	725450	MM	EET CHI	07/28/23 13:26
Total/NA	Analysis	SM 4500 F C		1	726049	EH	EET CHI	08/02/23 12:59
Total/NA	Analysis	SM 4500 SO4 E		20	726931	MM	EET CHI	08/08/23 12:32

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR

Job ID: 500-237221-1

Client Sample ID: MW-07

Lab Sample ID: 500-237221-11

Date Collected: 07/27/23 14:11

Matrix: Water

Date Received: 07/27/23 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726205	FXG	EET CHI	08/02/23 22:13
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		10	726635	FXG	EET CHI	08/04/23 14:12
Total Recoverable	Prep	3005A			725588	BDE	EET CHI	07/31/23 09:10 - 07/31/23 09:40 ¹
Total Recoverable	Analysis	6020A		1	726635	FXG	EET CHI	08/04/23 15:35
Total/NA	Prep	7470A			727486	MJG	EET CHI	08/11/23 10:00 - 08/11/23 12:00 ¹
Total/NA	Analysis	7470A		1	727670	MJG	EET CHI	08/14/23 08:02
Total/NA	Analysis	SM 2540C		1	725803	MB	EET CHI	08/01/23 11:54
Total/NA	Analysis	SM 4500 CI- E		10	725450	MM	EET CHI	07/28/23 13:26
Total/NA	Analysis	SM 4500 F C		1	726049	EH	EET CHI	08/02/23 13:04
Total/NA	Analysis	SM 4500 SO4 E		20	726931	MM	EET CHI	08/08/23 12:33

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

Laboratory References:

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





ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/24/2023 4:12:10 PM

JOB DESCRIPTION

Will County 1N/1S CCR (RAD)

JOB NUMBER

500-237221-2

Eurofins Chicago

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Authorized for release by
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(219)252-7570



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Job ID: 500-237221-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-237221-2

Receipt

The samples were received on 7/26/2023 4:40 PM and 7/27/2023 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 1.7°C, 2.5°C, 2.5°C, 2.7°C and 4.2°C

Gas Flow Proportional Counter

Method 903.0: Radium-226 batch 622153: 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. MW-08 (500-237221-1), MW-09 (500-237221-2), MW-13 (500-237221-3), (LCS 160-622153/2-A), (MB 160-622153/1-A), (500-237220-C-7-A) and (500-237220-D-7-A DU)

Method 903.0: Radium-226 batch 622353: 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. MW-14 (500-237221-4), MW-15 (500-237221-5), 1N/1S Duplicate (500-237221-6), MW-01 (500-237221-7), MW-02 (500-237221-8), MW-03 (500-237221-9), MW-04 (500-237221-10), MW-07 (500-237221-11), (LCS 160-622353/2-A), (MB 160-622353/1-A) and (500-237221-E-10-A DU)

Method 904.0: Radium-228 batch 622159: The detection goal was not met for the following sample. Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-13 (500-237221-3). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 622159: 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. MW-08 (500-237221-1), MW-09 (500-237221-2), MW-13 (500-237221-3), (LCS 160-622159/2-A), (MB 160-622159/1-A), (500-237220-C-7-B) and (500-237220-D-7-B DU)

Method 904.0: Radium-228 Prep Batch 160-622354: The following sample did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interferences (see prep NCM 280214). The data have been reported with this narrative. 1N/1S Duplicate (500-237221-6)

Method 904.0: Radium 228 batch 622354: 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. MW-14 (500-237221-4), MW-15 (500-237221-5), 1N/1S Duplicate (500-237221-6), MW-01 (500-237221-7), MW-02 (500-237221-8), MW-03 (500-237221-9), MW-04 (500-237221-10), MW-07 (500-237221-11), (LCS 160-622354/2-A), (MB 160-622354/1-A) and (500-237221-E-10-B DU)

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

Rad

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

Method Summary

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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



Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-237221-1	MW-08	Water	07/26/23 14:26	07/26/23 16:40
500-237221-2	MW-09	Water	07/26/23 13:10	07/26/23 16:40
500-237221-3	MW-13	Water	07/25/23 11:50	07/26/23 16:40
500-237221-4	MW-14	Water	07/25/23 13:40	07/26/23 16:40
500-237221-5	MW-15	Water	07/25/23 14:53	07/26/23 16:40
500-237221-6	1N/1S Duplicate	Water	07/25/23 00:00	07/26/23 16:40
500-237221-7	MW-01	Water	07/27/23 08:22	07/27/23 16:45
500-237221-8	MW-02	Water	07/27/23 09:16	07/27/23 16:45
500-237221-9	MW-03	Water	07/27/23 10:50	07/27/23 16:45
500-237221-10	MW-04	Water	07/27/23 12:20	07/27/23 16:45
500-237221-11	MW-07	Water	07/27/23 14:11	07/27/23 16:45

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Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-08
Date Collected: 07/26/23 14:26
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-1
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.253		0.113	0.116	1.00	0.128	pCi/L	07/31/23 10:32	08/22/23 10:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		30 - 110					07/31/23 10:32	08/22/23 10:17	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	0.0896	U	0.504	0.504	1.00	0.901	pCi/L	07/31/23 10:36	08/14/23 14:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		30 - 110					07/31/23 10:36	08/14/23 14:28	1
Y Carrier	86.0		30 - 110					07/31/23 10:36	08/14/23 14:28	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	0.343	U	0.517	0.517	5.00	0.901	pCi/L		08/23/23 16:36	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-09
Date Collected: 07/26/23 13:10
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-2
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0956	U	0.0765	0.0770	1.00	0.107	pCi/L	07/31/23 10:32	08/22/23 10:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		30 - 110					07/31/23 10:32	08/22/23 10:17	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	0.0904	U	0.393	0.393	1.00	0.714	pCi/L	07/31/23 10:36	08/14/23 14:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		30 - 110					07/31/23 10:36	08/14/23 14:29	1
Y Carrier	82.6		30 - 110					07/31/23 10:36	08/14/23 14:29	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	0.186	U	0.400	0.400	5.00	0.714	pCi/L		08/23/23 16:36	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-13
Date Collected: 07/25/23 11:50
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-3
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.404		0.168	0.172	1.00	0.185	pCi/L	07/31/23 10:32	08/22/23 10:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.0		30 - 110					07/31/23 10:32	08/22/23 10:19	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	0.637	U G	0.658	0.661	1.00	1.07	pCi/L	07/31/23 10:36	08/14/23 14:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.0		30 - 110					07/31/23 10:36	08/14/23 14:29	1
Y Carrier	85.6		30 - 110					07/31/23 10:36	08/14/23 14:29	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	1.04	U	0.679	0.683	5.00	1.07	pCi/L		08/23/23 16:36	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-14
Date Collected: 07/25/23 13:40
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.661		0.148	0.160	1.00	0.0914	pCi/L	08/01/23 09:50	08/23/23 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					08/01/23 09:50	08/23/23 10:21	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	0.706		0.362	0.368	1.00	0.495	pCi/L	08/01/23 09:55	08/15/23 13:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		30 - 110					08/01/23 09:55	08/15/23 13:05	1
Y Carrier	80.0		30 - 110					08/01/23 09:55	08/15/23 13:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.37		0.391	0.401	5.00	0.495	pCi/L		08/24/23 14:42	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-15

Lab Sample ID: 500-237221-5

Date Collected: 07/25/23 14:53

Matrix: Water

Date Received: 07/26/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131		0.0909	0.0916	1.00	0.127	pCi/L	08/01/23 09:50	08/23/23 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110					08/01/23 09:50	08/23/23 10:21	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	0.494	U	0.371	0.373	1.00	0.563	pCi/L	08/01/23 09:55	08/15/23 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		30 - 110					08/01/23 09:55	08/15/23 13:09	1
Y Carrier	81.1		30 - 110					08/01/23 09:55	08/15/23 13:09	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	0.625		0.382	0.384	5.00	0.563	pCi/L		08/24/23 14:42	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: 1N/1S Duplicate

Lab Sample ID: 500-237221-6

Date Collected: 07/25/23 00:00

Matrix: Water

Date Received: 07/26/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.305		0.203	0.205	1.00	0.281	pCi/L	08/01/23 09:50	08/23/23 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.3		30 - 110					08/01/23 09:50	08/23/23 10:25	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	0.655	U G	0.753	0.755	1.00	1.24	pCi/L	08/01/23 09:55	08/15/23 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.3		30 - 110					08/01/23 09:55	08/15/23 13:09	1
Y Carrier	85.6		30 - 110					08/01/23 09:55	08/15/23 13:09	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	0.961	U	0.780	0.782	5.00	1.24	pCi/L		08/24/23 14:42	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-01

Lab Sample ID: 500-237221-7

Date Collected: 07/27/23 08:22

Matrix: Water

Date Received: 07/27/23 16:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.149	U	0.106	0.106	1.00	0.152	pCi/L	08/01/23 09:50	08/23/23 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					08/01/23 09:50	08/23/23 10:25	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	1.77		0.566	0.590	1.00	0.682	pCi/L	08/01/23 09:55	08/15/23 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					08/01/23 09:55	08/15/23 13:09	1
Y Carrier	80.7		30 - 110					08/01/23 09:55	08/15/23 13:09	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	1.92		0.576	0.599	5.00	0.682	pCi/L		08/24/23 14:42	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-02
Date Collected: 07/27/23 09:16
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.287		0.123	0.126	1.00	0.146	pCi/L	08/01/23 09:50	08/23/23 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					08/01/23 09:50	08/23/23 10:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.452	0.462	1.00	0.605	pCi/L	08/01/23 09:55	08/15/23 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.5		30 - 110					08/01/23 09:55	08/15/23 13:08	1
Y Carrier	80.4		30 - 110					08/01/23 09:55	08/15/23 13:08	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	1.31		0.468	0.479	5.00	0.605	pCi/L		08/24/23 14:42	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-03
Date Collected: 07/27/23 10:50
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-9
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.404		0.128	0.133	1.00	0.125	pCi/L	08/01/23 09:50	08/23/23 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					08/01/23 09:50	08/23/23 10:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.398	0.409	1.00	0.508	pCi/L	08/01/23 09:55	08/15/23 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					08/01/23 09:55	08/15/23 13:10	1
Y Carrier	85.6		30 - 110					08/01/23 09:55	08/15/23 13:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.43		0.418	0.430	5.00	0.508	pCi/L		08/24/23 14:42	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-04

Lab Sample ID: 500-237221-10

Date Collected: 07/27/23 12:20

Matrix: Water

Date Received: 07/27/23 16:45

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.249		0.110	0.112	1.00	0.129	pCi/L	08/01/23 09:50	08/23/23 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/01/23 09:50	08/23/23 10:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.480	0.489	1.00	0.668	pCi/L	08/01/23 09:55	08/15/23 13:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		30 - 110					08/01/23 09:55	08/15/23 13:10	1
Y Carrier	78.9		30 - 110					08/01/23 09:55	08/15/23 13:10	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	1.28		0.492	0.502	5.00	0.668	pCi/L		08/24/23 14:42	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-07
Date Collected: 07/27/23 14:11
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-11
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.372		0.142	0.146	1.00	0.143	pCi/L	08/01/23 09:50	08/23/23 10:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		30 - 110					08/01/23 09:50	08/23/23 10:25	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	0.563	U	0.447	0.450	1.00	0.690	pCi/L	08/01/23 09:55	08/15/23 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		30 - 110					08/01/23 09:55	08/15/23 13:08	1
Y Carrier	82.2		30 - 110					08/01/23 09:55	08/15/23 13:08	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	0.936		0.469	0.473	5.00	0.690	pCi/L		08/24/23 14:42	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

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: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Rad

Prep Batch: 622153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total/NA	Water	PrecSep-21	
500-237221-2	MW-09	Total/NA	Water	PrecSep-21	
500-237221-3	MW-13	Total/NA	Water	PrecSep-21	
MB 160-622153/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-622153/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 622159

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-1	MW-08	Total/NA	Water	PrecSep_0	
500-237221-2	MW-09	Total/NA	Water	PrecSep_0	
500-237221-3	MW-13	Total/NA	Water	PrecSep_0	
MB 160-622159/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-622159/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 622353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-4	MW-14	Total/NA	Water	PrecSep-21	
500-237221-5	MW-15	Total/NA	Water	PrecSep-21	
500-237221-6	1N/1S Duplicate	Total/NA	Water	PrecSep-21	
500-237221-7	MW-01	Total/NA	Water	PrecSep-21	
500-237221-8	MW-02	Total/NA	Water	PrecSep-21	
500-237221-9	MW-03	Total/NA	Water	PrecSep-21	
500-237221-10	MW-04	Total/NA	Water	PrecSep-21	
500-237221-11	MW-07	Total/NA	Water	PrecSep-21	
MB 160-622353/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-622353/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-237221-10 DU	MW-04	Total/NA	Water	PrecSep-21	

Prep Batch: 622354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-237221-4	MW-14	Total/NA	Water	PrecSep_0	
500-237221-5	MW-15	Total/NA	Water	PrecSep_0	
500-237221-6	1N/1S Duplicate	Total/NA	Water	PrecSep_0	
500-237221-7	MW-01	Total/NA	Water	PrecSep_0	
500-237221-8	MW-02	Total/NA	Water	PrecSep_0	
500-237221-9	MW-03	Total/NA	Water	PrecSep_0	
500-237221-10	MW-04	Total/NA	Water	PrecSep_0	
500-237221-11	MW-07	Total/NA	Water	PrecSep_0	
MB 160-622354/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-622354/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-237221-10 DU	MW-04	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-622153/1-A
Matrix: Water
Analysis Batch: 625099

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 622153

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01269	U	0.0413	0.0413	1.00	0.0993	pCi/L	07/31/23 10:32	08/22/23 08:00	1
Carrier	MB		Limits							
Ba Carrier	%Yield	MB Qualifier	30 - 110							
	88.7									
		Prepared	Analyzed	Dil Fac						
		07/31/23 10:32	08/22/23 08:00	1						

Lab Sample ID: LCS 160-622153/2-A
Matrix: Water
Analysis Batch: 625099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622153

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	10.49		1.10	1.00	0.107	pCi/L	93	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	94.6		30 - 110							

Lab Sample ID: MB 160-622353/1-A
Matrix: Water
Analysis Batch: 625261

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 622353

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.007754	U	0.0486	0.0486	1.00	0.0989	pCi/L	08/01/23 09:50	08/23/23 10:17	1
Carrier	MB		Limits							
Ba Carrier	%Yield	MB Qualifier	30 - 110							
	90.7									
		Prepared	Analyzed	Dil Fac						
		08/01/23 09:50	08/23/23 10:17	1						

Lab Sample ID: LCS 160-622353/2-A
Matrix: Water
Analysis Batch: 625261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622353

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	9.951		1.05	1.00	0.103	pCi/L	88	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	93.6		30 - 110							

Lab Sample ID: 500-237221-10 DU
Matrix: Water
Analysis Batch: 625262

Client Sample ID: MW-04
Prep Type: Total/NA
Prep Batch: 622353

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	0.249		0.3368		0.120	1.00	0.103	pCi/L	0.38	1

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

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

Lab Sample ID: 500-237221-10 DU
 Matrix: Water
 Analysis Batch: 625262

Client Sample ID: MW-04
 Prep Type: Total/NA
 Prep Batch: 622353

Carrier	<i>DU</i> %Yield	<i>DU</i> Qualifier	Limits
Ba Carrier	90.2		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-622159/1-A
 Matrix: Water
 Analysis Batch: 624094

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 622159

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3418	U	0.403	0.404	1.00	0.664	pCi/L	07/31/23 10:36	08/14/23 14:25	1
Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110					07/31/23 10:36	08/14/23 14:25	1
Y Carrier	80.4		30 - 110					07/31/23 10:36	08/14/23 14:25	1

Lab Sample ID: LCS 160-622159/2-A
 Matrix: Water
 Analysis Batch: 624094

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 622159

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-228	7.96	6.517		1.03	1.00	0.504	pCi/L	82	75 - 125
Carrier	<i>LCS</i> %Yield	<i>LCS</i> Qualifier	Limits						
Ba Carrier	94.6		30 - 110						
Y Carrier	85.2		30 - 110						

Lab Sample ID: MB 160-622354/1-A
 Matrix: Water
 Analysis Batch: 624213

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 622354

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1876	U	0.311	0.311	1.00	0.530	pCi/L	08/01/23 09:55	08/15/23 13:04	1
Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					08/01/23 09:55	08/15/23 13:04	1
Y Carrier	83.7		30 - 110					08/01/23 09:55	08/15/23 13:04	1

Lab Sample ID: LCS 160-622354/2-A
 Matrix: Water
 Analysis Batch: 624213

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 622354

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-228	7.96	8.565		1.18	1.00	0.441	pCi/L	108	75 - 125

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

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

Lab Sample ID: LCS 160-622354/2-A
Matrix: Water
Analysis Batch: 624213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 622354

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.6		30 - 110
Y Carrier	83.7		30 - 110

Lab Sample ID: 500-237221-10 DU
Matrix: Water
Analysis Batch: 624209

Client Sample ID: MW-04
Prep Type: Total/NA
Prep Batch: 622354

Analyte	Sample Sample		DU DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-228	1.03		1.428		0.509	1.00	0.597	pCi/L	0.40	1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	90.2		30 - 110
Y Carrier	80.4		30 - 110

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Eurofins Chicago

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

Chain of Custody Record

MKE 232

eurofins Environment Testing

Client Information		Sampler: <u>IAN JOHN HOWESEN</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-114450-45943 1			
Client Contact: Patrick Allenstein		Phone: <u>630 325 1300</u>		E-Mail: Diana.Mockler@et eurofinsus.com		State of Origin:		Page: Page 1 of 1			
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested  500-237221 COC				Job #: <u>500-237221</u>			
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:						Preservation Codes:			
City: Brookfield		TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)							
State, Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone:		PO #: 4502116506									
Email: patricka@kprginc.com		WO #:									
Project Name: Will County 1N/1S Event Desc: Quarterly GW Monitoring <u>CCR</u>		Project #: 50011609		903.0, 904.0 6010C, 6020A, 7470A 2640C, 4500_F_C, S144500_CL_E, S144500_SO4_E							
Site: Illinois		SSOW#:									
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Special Instructions/Note:	
MW-01		—		—		—		Water			
MW-02		—		—		—		Water			
MW-03		—		—		—		Water			
MW-04		—		—		—		Water			
MW-07		—		—		—		Water			
1 MW-08		7-26-23		14:26		G		Water		N N X X X	
2 MW-09		7-26-23		13:10		G		Water		N N X X X	
3 MW-13		7-25-23		11:50		G		Water		N N X X X	
4 MW-14		7-25-23		13:40		G		Water		N N X X X	
5 MW-15		7-25-23		14:53		G		Water		N N X X X	
6 1N/1S Duplicate		7-25-23		—		G		Water		N N X X X	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						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					
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements.					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:					
Relinquished by: <u>[Signature]</u>		Date/Time: 7-26-23 16:40		Company: KPRG		Received by: <u>Stephanie Hernandez</u>		Date/Time: 7/26/23 16:40		Company: EETA	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>2.9 -> 2.5, 4.6 -> 4.2, 2.1 -> 1.7</u>							

Eurofins Chicago


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

Chain of Custody Record

MKE 232



Environment Testing

Client Information		Sampler: <i>Jan Scott Howison</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s):		COC No: 500-114450-45943 1			
Client Contact: Patrick Allenstein		Phone: <i>630 325 1800</i>		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1			
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested				Job #: <i>500-237221</i>			
Address: 14685 West Lisbon Road, Suite 1A		Due Date Requested:		 <p>500-237221 COC</p>				Preservation Codes:			
City: Brookfield		TAT Requested (days):						A - HCL		M - Hexane	
State, Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						B - NaOH		N - None	
Phone:		PO #: 4502116506						C - Zn Acetate		O - AsNaO2	
Email: patricka@kprginc.com		WO #:						D - Nitric Acid		P - Na2O4S	
Project Name: Will County 1N/1S Event Desc: Quarterly GW Monitoring <i>CCR</i>		Project #: 50011609		E - NaHSO4		Q - Na2SO3		R - Na2S2O3			
Site: Illinois		SSOW#:		F - MeOH		S - H2SO4		T - TSP Dodecahydrate			
				G - Amchlor		U - Acetone		V - MCAA			
				H - Ascorbic Acid		W - pH 4-5		Y - Trizma			
				I - Ice		Z - other (specify)		Other:			
				J - DI Water							
				K - EDTA							
				L - EDA							
				Matrix (W=water, G=solid, O=waste/oil, BT=tissue, A=Air)							
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Special Instructions/Note:			
MW-01		7-27-23		08:22		G Water					
MW-02		7-27-23		09:16		G Water					
MW-03		7-27-23		10:50		G Water					
MW-04		7-27-23		12:20		G Water					
MW-07		7-27-23		14:11		G Water					
MW-08		---		---		Water					
MW-09		---		---		Water					
MW-13		---		---		Water					
MW-14		---		---		Water					
MW-15		---		---		Water					
1N/1S Duplicate		---		---		Water					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested: I, II, III, IV Other (specify)					Special Instructions/QC Requirements.						
Empty Kit Relinquished by		Date:		Time		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: 7-27-23 16:45		Company: <i>[Signature]</i>		Received by: Stephanie Hemondy		Date/Time: 7/27/23 16:45		Company: EEIA	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>2.9-2.5, 3.1-2.7</i>							



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-177112-1									
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-237221-2									
Address: 13715 Rider Trail North,		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)										
City: Earth City	State: MO, 63045	PO #: 314-298-8566(Tel) 314-298-8757(Fax)	Analysis Requested									
Project #: 50011609	SSOW#:											
Project Name: Will County 1N/1S CCR (RAD)	Site: NRG Midwest Generation Will County											
Due Date Requested: 8/29/2023	TAT Requested (days):											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sealed, Onwater/Oil, BT-tissue, AAAB)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	R226R228 GPPC	Total Number of Containers	Special Instructions/Note:
MW-08 (500-237221-1)	7/26/23	14:26 Central	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;			
MW-09 (500-237221-2)	7/26/23	13:10 Central	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;			
MW-13 (500-237221-3)	7/25/23	11:50 Central	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;			
MW-14 (500-237221-4)	7/25/23	13:40 Central	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;			
MW-15 (500-237221-5)	7/25/23	14:53 Central	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;			
1N/1S Duplicate (500-237221-6)	7/25/23	Central	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;			
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>												
<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:</p>												
<p>Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____ Relinquished by: <i>Hand</i> Date: 7/27/23 Time: 16:00 Company: FEDEX Relinquished by: _____ Date: _____ Time: _____ Company: BETA Relinquished by: _____ Date: _____ Time: _____ Company: <i>Sioux Falls Woodwright</i> Relinquished by: _____ Date: _____ Time: _____ Company: <i>JUL 20 2023 08:40</i> Relinquished by: _____ Date: _____ Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____</p>												



Chain of Custody Record



Environment Testing



Lab PM: Mockler, Diana J
 Carrier Tracking No(s): 500-177172.1
 E-Mail: Diana.Mockler@et.eurofins.com
 State of Origin: Illinois
 Accreditations Required (See note): NELAP - Illinois
 Job #: 500-237221-2
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Y - Trizma
 Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Whether Sampled, Contained, or Both)	Preservation Code	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Analysis Requested	Special Instructions/Note
MW-01 (500-237221-7)	7/27/23	08:22 Central	Water	Water	X	X			Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-02 (500-237221-8)	7/27/23	09:16 Central	Water	Water	X	X			Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-03 (500-237221-9)	7/27/23	10:50 Central	Water	Water	X	X			Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-04 (500-237221-10)	7/27/23	12:20 Central	Water	Water	X	X			Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-07 (500-237221-11)	7/27/23	14:11 Central	Water	Water	X	X			Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Will County

WO #: _____
 Project #: 50011619
 SSOW#: _____

Number of Containers: _____

Carrier Tracking No(s): 500-177172.1
 State of Origin: Illinois
 Job #: 500-237221-2
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Y - Trizma
 Z - other (specify)

Special Instructions/Note:
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____
 Relinquished by: *Rowan FEDEX*
 Relinquished by: _____
 Relinquished by: _____
 Custody Seals Intact: _____
 Δ Yes Δ No
 Custody Seal No.: _____

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

Method of Shipment: FEDEX
 Received by: _____
 Date/Time: 7/27/23 08:10
 Received by: *Rowan Weddington*
 Date/Time: _____
 Received by: _____
 Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-237221-2

Login Number: 237221

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5,4.2,1.7,2.5,2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-237221-2

Login Number: 237221

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 07/28/23 11:53 AM

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

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-237221-2

Login Number: 237221

List Number: 3

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 07/31/23 01:50 PM

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

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-08

Date Collected: 07/26/23 14:26

Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622153	KAC	EET SL	07/31/23 10:32
Total/NA	Analysis	903.0		1	625099	FLC	EET SL	08/22/23 10:17
Total/NA	Prep	PrecSep_0			622159	KAC	EET SL	07/31/23 10:36
Total/NA	Analysis	904.0		1	624093	SWS	EET SL	08/14/23 14:28
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/23/23 16:36

Client Sample ID: MW-09

Date Collected: 07/26/23 13:10

Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622153	KAC	EET SL	07/31/23 10:32
Total/NA	Analysis	903.0		1	625099	FLC	EET SL	08/22/23 10:17
Total/NA	Prep	PrecSep_0			622159	KAC	EET SL	07/31/23 10:36
Total/NA	Analysis	904.0		1	624096	SWS	EET SL	08/14/23 14:29
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/23/23 16:36

Client Sample ID: MW-13

Date Collected: 07/25/23 11:50

Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622153	KAC	EET SL	07/31/23 10:32
Total/NA	Analysis	903.0		1	625099	FLC	EET SL	08/22/23 10:19
Total/NA	Prep	PrecSep_0			622159	KAC	EET SL	07/31/23 10:36
Total/NA	Analysis	904.0		1	624096	SWS	EET SL	08/14/23 14:29
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/23/23 16:36

Client Sample ID: MW-14

Date Collected: 07/25/23 13:40

Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622353	KAC	EET SL	08/01/23 09:50
Total/NA	Analysis	903.0		1	625261	FLC	EET SL	08/23/23 10:21
Total/NA	Prep	PrecSep_0			622354	KAC	EET SL	08/01/23 09:55
Total/NA	Analysis	904.0		1	624213	FLC	EET SL	08/15/23 13:05
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/24/23 14:42

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-15
Date Collected: 07/25/23 14:53
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622353	KAC	EET SL	08/01/23 09:50
Total/NA	Analysis	903.0		1	625261	FLC	EET SL	08/23/23 10:21
Total/NA	Prep	PrecSep_0			622354	KAC	EET SL	08/01/23 09:55
Total/NA	Analysis	904.0		1	624209	FLC	EET SL	08/15/23 13:09
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/24/23 14:42

Client Sample ID: 1N/1S Duplicate
Date Collected: 07/25/23 00:00
Date Received: 07/26/23 16:40

Lab Sample ID: 500-237221-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622353	KAC	EET SL	08/01/23 09:50
Total/NA	Analysis	903.0		1	625262	FLC	EET SL	08/23/23 10:25
Total/NA	Prep	PrecSep_0			622354	KAC	EET SL	08/01/23 09:55
Total/NA	Analysis	904.0		1	624209	FLC	EET SL	08/15/23 13:09
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/24/23 14:42

Client Sample ID: MW-01
Date Collected: 07/27/23 08:22
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622353	KAC	EET SL	08/01/23 09:50
Total/NA	Analysis	903.0		1	625262	FLC	EET SL	08/23/23 10:25
Total/NA	Prep	PrecSep_0			622354	KAC	EET SL	08/01/23 09:55
Total/NA	Analysis	904.0		1	624209	FLC	EET SL	08/15/23 13:09
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/24/23 14:42

Client Sample ID: MW-02
Date Collected: 07/27/23 09:16
Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622353	KAC	EET SL	08/01/23 09:50
Total/NA	Analysis	903.0		1	625262	FLC	EET SL	08/23/23 10:25
Total/NA	Prep	PrecSep_0			622354	KAC	EET SL	08/01/23 09:55
Total/NA	Analysis	904.0		1	624209	FLC	EET SL	08/15/23 13:08
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/24/23 14:42

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Client Sample ID: MW-03

Date Collected: 07/27/23 10:50

Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622353	KAC	EET SL	08/01/23 09:50
Total/NA	Analysis	903.0		1	625262	FLC	EET SL	08/23/23 10:25
Total/NA	Prep	PrecSep_0			622354	KAC	EET SL	08/01/23 09:55
Total/NA	Analysis	904.0		1	624209	FLC	EET SL	08/15/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/24/23 14:42

Client Sample ID: MW-04

Date Collected: 07/27/23 12:20

Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622353	KAC	EET SL	08/01/23 09:50
Total/NA	Analysis	903.0		1	625262	FLC	EET SL	08/23/23 10:25
Total/NA	Prep	PrecSep_0			622354	KAC	EET SL	08/01/23 09:55
Total/NA	Analysis	904.0		1	624209	FLC	EET SL	08/15/23 13:10
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/24/23 14:42

Client Sample ID: MW-07

Date Collected: 07/27/23 14:11

Date Received: 07/27/23 16:45

Lab Sample ID: 500-237221-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			622353	KAC	EET SL	08/01/23 09:50
Total/NA	Analysis	903.0		1	625262	FLC	EET SL	08/23/23 10:25
Total/NA	Prep	PrecSep_0			622354	KAC	EET SL	08/01/23 09:55
Total/NA	Analysis	904.0		1	624209	FLC	EET SL	08/15/23 13:08
Total/NA	Analysis	Ra226_Ra228		1	625293	SCB	EET SL	08/24/23 14:42

Laboratory References:

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

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
 Project/Site: Will County 1N/1S CCR (RAD)

Job ID: 500-237221-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-237221-1	MW-08	76.0
500-237221-2	MW-09	77.2
500-237221-3	MW-13	74.0
500-237221-4	MW-14	91.7
500-237221-5	MW-15	81.9
500-237221-6	1N/1S Duplicate	74.3
500-237221-7	MW-01	92.2
500-237221-8	MW-02	89.5
500-237221-9	MW-03	94.9
500-237221-10	MW-04	87.7
500-237221-10 DU	MW-04	90.2
500-237221-11	MW-07	92.9
LCS 160-622153/2-A	Lab Control Sample	94.6
LCS 160-622353/2-A	Lab Control Sample	93.6
MB 160-622153/1-A	Method Blank	88.7
MB 160-622353/1-A	Method Blank	90.7

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-237221-1	MW-08	76.0	86.0
500-237221-2	MW-09	77.2	82.6
500-237221-3	MW-13	74.0	85.6
500-237221-4	MW-14	91.7	80.0
500-237221-5	MW-15	81.9	81.1
500-237221-6	1N/1S Duplicate	74.3	85.6
500-237221-7	MW-01	92.2	80.7
500-237221-8	MW-02	89.5	80.4
500-237221-9	MW-03	94.9	85.6
500-237221-10	MW-04	87.7	78.9
500-237221-10 DU	MW-04	90.2	80.4
500-237221-11	MW-07	92.9	82.2
LCS 160-622159/2-A	Lab Control Sample	94.6	85.2
LCS 160-622354/2-A	Lab Control Sample	93.6	83.7
MB 160-622159/1-A	Method Blank	88.7	80.4
MB 160-622354/1-A	Method Blank	90.7	83.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-27-23
Sample Name	MW-01	Start Time	08:07	
Condition of Well	GOOD			
Water Level	10.35	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.75 QTL	W L at Sample Time	10.34	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	08:22	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
08:10	10.33	6.73	17.6	1.596	54.1	15.9	7.3
08:13	10.33	6.57	17.0	1.570	19.0	60.6	7.2
08:16	10.37	6.55	17.4	1.566	9.1	75.6	7.2
08:19	10.34	6.54	17.2	1.563	7.6	78.8	7.2
08:22	10.34	6.54	17.3	1.564	6.8	81.0	7.2

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

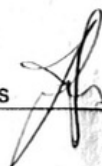
PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-27-73
Sample Name	MW-02	Start Time	09:04	
Condition of Well	GOOD			
Water Level	11.58	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS SLIGHT ODOR	
Volume Removed	2.0 QRS	WL at Sample Time	11.58	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CLA + CER + CCADUF	Sample Time	09:16	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
09:07	11.58	7.64	17.0	1.562	13.0	-119.7	7.4
09:10	11.58	7.58	17.9	1.569	8.2	-131.3	7.6
09:13	11.57	7.53	18.9	1.572	8.3	-134.2	7.6
09:16	11.58	7.50	19.3	1.571	8.6	-135.6	7.4

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-27-23
Sample Name	MW-03	Start Time	10:32	
Condition of Well	GOOD			
Water Level	11.17	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS SLIGHT ODOR	
Volume Removed	3.75 GALS	W L at Sample Time	11.42	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	ECA + CCR	Sample Time	10:50	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
10:35	11.31	6.68	16.1	1.476	4.1	8.2	6.7
10:38	11.44	6.55	15.6	1.485	16.0	29.8	6.8
10:41	11.44	6.54	15.6	1.480	6.1	43.4	7.2
10:44	11.42	6.54	15.6	1.482	4.2	49.3	6.9
10:47	11.42	6.53	15.7	1.486	3.5	52.1	7.1
10:50	11.42	6.53	15.8	1.495	3.2	53.5	7.2

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-27-23
Sample Name	MW-04	Start Time	12:03	
Condition of Well	GOOD			
Water Level	11.41	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.75 QTS	W L at Sample Time	11.48	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	ECA + CCR	Sample Time	12:20	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:06	11.44	6.68	22.1	2.207	48.9	65.9	2.2
12:09	11.48	6.62	19.3	2.353	52.9	77.1	4.2
12:11	11.49	6.59	20.0	2.321	43.0	83.2	18.2
12:14	11.52	6.51	17.8	2.266	21.1	85.2	22.1
12:17	11.50	6.49	19.1	2.244	14.2	83.0	6.1
12:20	11.48	6.49	19.4	2.241	12.3	82.9	6.0

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-27-23
Sample Name	MW-07	Start Time	13:53	
Condition of Well	GOOD			
Water Level	11.60	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COOLNESS SLIGHT ODOR	
Volume Removed	3.25 Gals	WL at Sample Time	11.89	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CLR	Sample Time	14:11	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:56	11.67	6.61	23.2	2.249	50.9	-2.6	3.1
13:59	11.81	6.78	18.1	1.926	50.4	-61.8	2.5
14:02	11.90	7.07	15.8	1.735	36.7	-49.2	10.2
14:05	11.96	7.25	15.7	1.668	34.9	-59.8	4.2
14:08	11.99	7.35	15.6	1.640	31.3	-69.8	1.5
14:11	11.89	7.38	15.6	1.639	29.8	-71.3	1.0

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-26-23
Sample Name	MW-08	Start Time	14:11	
Condition of Well	GOOD			
Water Level	12.01	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.5 QTS	W L at Sample Time	12.36	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	14:26	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
14:14	12.07	7.43	17.4	2.073	83.8	-66.0	35.3
14:17	12.29	7.31	17.7	2.013	85.8	-70.7	18.8
14:20	12.33	7.27	17.4	1.982	82.6	-69.0	19.5
14:23	12.34	7.27	17.2	1.972	80.8	-67.5	17.6
14:26	12.36	7.27	17.2	1.955	78.3	-67.1	16.9

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-26-23
Sample Name	MW-09	Start Time	12:52	
Condition of Well	GOOD			
Water Level	11.90	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS SLIGHT ODOR	
Volume Removed	3.0 GALS	W L at Sample Time	12.01	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR + CCR ^{1N/2N 2N/25}	Sample Time	13:10	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:55	12.04	8.69	16.3	1.315	50.1	-172.9	6.9
12:58	12.08	8.92	17.7	1.311	41.7	-178.1	6.7
13:01	12.03	8.90	19.7	1.302	35.1	-173.1	7.1
13:04	12.0	8.89	20.9	1.315	29.7	-168.6	7.1
13:07	11.98	8.85	21.6	1.335	27.1	-160.3	6.6
13:10	12.01	8.83	22.4	1.337	26.6	-160.2	6.5

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-25-23
Sample Name	MW-13	Start Time	11:35	
Condition of Well	Good			
Water Level	10.96	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.5 QRS	W L at Sample Time	11.22	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR TRACE TURB	
Sample Analysis	CCR + IN/IS CCRDUP	Sample Time	11:50	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
11:38	10.99	7.07	20.0	1.585	59.0	99.1	5.0
11:41	11.01	7.05	19.6	1.629	35.2	98.7	5.0
11:44	11.14	7.04	19.3	1.636	28.0	97.0	11.3
11:47	11.19	7.03	19.1	1.640	23.6	95.3	18.8
11:50	11.22	7.02	19.1	1.641	21.3	94.3	16.7

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7-25-23
Sample Name	MW-14	Start Time	13:25	
Condition of Well	GOOD			
Water Level	10.79	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.75 QTB	W L at Sample Time	10.86	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCP	Sample Time	13:40	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:28	10.83	7.26	19.5	1.751	78.5	90.6	4.2
13:31	10.87	7.65	16.5	1.486	49.1	-89.3	4.2
13:34	10.88	7.87	18.1	1.477	41.1	-148.8	3.3
13:37	10.85	7.78	18.4	1.495	36.7	-155.0	3.6
13:40	10.86	7.75	18.4	1.506	36.3	-154.1	3.7

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	7.25-23
Sample Name	MW-15	Start Time	14:35	
Condition of Well	GOOD			
Water Level	10.40	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	LIGHT TAN TINT TRACE TURB	
Volume Removed	3.0 Gals	W L at Sample Time	10.79	
Method of Sample	Low-Flow	Sample Characteristics	LIGHT TAN TINT	
Sample Analysis	CCR	Sample Time	14:53	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
14:38	10.50	6.89	19.8	2.176	89.0	31.4	10.7
14:41	10.63	6.96	17.4	1.988	81.6	-52.9	85.2
14:44	10.69	6.97	18.0	1.954	80.4	-60.6	74.3
14:47	10.72	6.97	17.9	1.901	75.7	-65.4	50.9
14:50	10.77	6.97	17.6	1.890	71.7	-66.0	42.1
14:53	10.79	6.97	17.3	1.882	70.7	-64.5	35.6

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

