

## **DATA SUMMARY POSTING**

Station: Midwest Generation Joliet #29 Generating Station

Regulated Unit(s): Pond 2 (BOL Log No. 2021-506)

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 3<sup>rd</sup> quarter 2025 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring.

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

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #29, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium	Turbidity	
MW-10 upgradient	10/28/2015	0.47	100	200	0.41	7.04	84	790	< 0.0030	< 0.0010	0.041	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	0.0060	0.2981	< 0.0025	< 0.0020	NA	
	2/10/2016	0.41	100	210	0.44	7.17	120	820	< 0.0030	0.0010	0.043	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.0067	< 0.438	< 0.0025	< 0.0020	NA	
	5/12/2016	0.29	100	300	0.42	7.02	110	920	< 0.0030	< 0.0010	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	0.0051	< 0.414	< 0.0025	< 0.0020	NA	
	8/31/2016	0.36	89	170	0.46	6.95	100	760	< 0.0030	< 0.0010	0.039	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.010	< 0.00020	0.0077	< 0.394	< 0.0025	< 0.0020	NA	
	11/2/2016	0.48	100	130	0.45	6.99	95	720	< 0.0030	0.0018	0.035	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.0014	0.011	< 0.00020	0.0061	0.626	< 0.0025	< 0.0020	NA	
	2/6/2017	0.44	120	190	0.36	6.99	88	820	< 0.0030	0.0011	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00086	0.014	< 0.00020	0.0056	< 0.389	< 0.0025	< 0.0020	NA	
	4/26/2017	0.35	120	200	0.35	7.27	87	760	< 0.0030	0.0015	0.046	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.0012	< 0.010	< 0.00020	0.0060	< 0.34	< 0.0025	< 0.0020	NA	
	6/14/2017	0.29	91	160	0.43	7.48	75	690	< 0.0030	< 0.0010	0.034	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	0.0072	< 0.356	< 0.0025	< 0.0020	NA	
	8/2/2017	0.45	97	170	0.38	7.23	110	750	< 0.0030	0.0011	0.036	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.0079	< 0.429	< 0.0025	< 0.0020	NA	
	10/18/2017	0.61	120	140	0.41	7.11	130	820	< 0.0030	0.0012	0.040	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00059	0.013	< 0.00020	0.0066	< 0.422	< 0.0025	^< 0.0020	NA	
	4/24/2018	0.4	110	260	0.39	7.28	120	910	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/17/2018	0.63	120	180	0.42	7.30	110	810	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/24/2018 R	0.44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/7/2019	0.56	130	410	0.39	7.17	95	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/3/2019 R	NA	NA	230	NA	NA	NA	830	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/2019	0.35	90	130	0.36	7.40	59	650	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/20/2020	0.85	120	250	0.41	6.90	100	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/11/2020 R	0.26	NA	NA	NA	NA	NA	770	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/22/2020	0.34	110	230	0.41	7.11	93	850	< 0.0030	0.0010	0.043	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.0057	NA	< 0.0025	< 0.0020	NA	
	5/18/2021	0.33	140	350	0.39	7.16	210	1200	< 0.0030	0.0014	0.060	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	0.0055	< 0.480	< 0.0025	< 0.0020	3.73	
	6/29/2021 R	NA	160	420	NA	NA	190	1300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.49
	8/30/2021	0.28	120	330	0.37	7.56	170	990	^+ < 0.0030	0.0012	0.051	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	0.0065	0.51	< 0.0025	< 0.0020	9.30	
	11/16/2021	0.39	120	260	0.38	7.01	150	1000	< 0.0030	0.0012	0.049	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.0066	0.692	< 0.0025	< 0.0020	5.59	
	3/3/2022	0.47	120	280	0.41	7.05	190	1000	< 0.0030	0.0014	0.055	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	0.0066	< 0.40	< 0.0025	< 0.0020	2.86	
	5/26/2022	0.39	120	280	0.41	6.90	160	1000	< 0.0030	0.0013	0.046	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.0064	< 0.593	< 0.0025	< 0.0020	2.08	
	8/31/2022	0.33	110	240	0.41	6.58	160	970	< 0.0030	0.0012	0.042	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.0057	0.534	< 0.0025	< 0.0020	2.93	
	11/9/2022	0.32	110	240	0.57	7.00	150	880	< 0.0030	0.0014	0.043	< 0.0010	< 0.00050	< 0.0050	< 0.0010	^+ < 0.00050	0.010	< 0.00020	0.0055	0.728	< 0.0025	< 0.0020	19.60	
	12/20/2022 R	NA	NA	NA	0.68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/28/2023	0.36	130	330	0.38	7.06	170	1200	< 0.0030	0.0012	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	0.0058	< 0.787	< 0.0025	< 0.0020	17.13	
	5/3/2023	0.37	130	310	0.39	6.99	190	1100	< 0.0030	< 0.0010	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	0.0068	< 0.487	< 0.0025	< 0.0020	2.60	
	7/20/2023	0.33	110	250	0.39	6.95	160	960	< 0.0030	< 0.0010	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.0053	0.623	< 0.0025	< 0.0020	5.60	
	10/26/2023	0.40	120	300	0.41	6.96	160	1100	< 0.0030	0.0011	0.050	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.0064	0.739	< 0.0025	< 0.0020	1.40	
	1/23/2024	0.49	110	260	0.37	6.96	160	970	^+ < 0.0030	0.0013	0.056	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00064	0.014	< 0.00020	0.0067	0.720	< 0.0025	< 0.0020	82.70	
	5/22/2024	0.38	110	180	0.41	7.17	120	840	< 0.0030	< 0.0010	0.040	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	0.0067	< 0.633	< 0.0025	< 0.0020	49.31	
	7/30/2024	0.44	120	170	0.38	7.58	150	880	< 0.0030	< 0.0010	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	^+ < 0.00050	0.013	< 0.00020	0.0071	0.455	< 0.0025	< 0.0020	2.27	
	10/29/2024	0.46	130	220	0.38	7.30	160	1000	< 0.0030	< 0.0010	0.048	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	0.0063	< 0.337	< 0.0025	< 0.0020	3.17	
	1/29/2025	0.50	140	250	0.40	7.13	150	1100	< 0.0030	0.0011	0.011	^+ < 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00089	0.015	< 0.00020	0.0066	< -0.0345	< 0.0025	< 0.0020	60.43	
	4/30/2025	0.38	120	280	0.42	7.27	170	1100	< 0.0030	< 0.0010	0.053	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	0.0068	0.772	< 0.0025	< 0.0020	9.43	
	8/7/2025	0.35	110	240	0.60	7.01	180	1000	< 0.0030	< 0.0010	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	0.0055	< 0.340	< 0.0025	< 0.0020	8.41	
	MW-03 downgradient	10/28/2015	0.34	110	230	0.41	7.11	110	960	< 0.0030	0.0015	0.10	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	< 0.0050	0.41	< 0.0025	< 0.0020	NA
2/10/2016		0.49	100	220	0.44	7.31	130	790	< 0.0030	0.0017	0.10	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.011	< 0.00020	0.0060	< 1.68	0.0045	< 0.0020	NA	
5/10/2016		0.48	95	240	0.44	7.07	130	800	< 0.0030	0.0011	0.095	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	0.0062	< 0.326	0.0030	< 0.0020	NA	
8/31/2016		0.49	100	250	0.45	7.18	120	920	< 0.0030	0.0013	0.095	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.00020	0.0086	< 0.373	0.0051	< 0.0020	NA	
11/2/2016		0.34	87	190	0.44	7.45	94	780	< 0.0030	0.0019	0.082	< 0.0010	< 0.00050	0.0051	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.0059	0.965	0.0032	< 0.0020	NA	
2/6/2017		0.40	97	140	0.39	7.35																		

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet Station #29, Joliet, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium	Turbidity	
MW-04 downgradient	10/28/2015	0.34	94	F1 200	0.45	7.07	83	740	< 0.0030	0.0013	0.082	^ < 0.0010	< 0.00050	< 0.0050	0.0063	< 0.00050	0.013	< 0.00020	0.0065	0.741	< 0.0025	< 0.0020	NA	
	2/10/2016	0.32	97	210	0.47	7.22	140	810	< 0.0030	0.0018	0.088	< 0.0010	< 0.00050	< 0.0050	0.0074	0.00062	0.011	< 0.00020	0.0063	< 1.52	< 0.0025	< 0.0020	NA	
	5/10/2016	0.47	100	260	0.46	6.71	150	900	< 0.0030	0.0014	0.088	< 0.0010	< 0.00050	< 0.0050	0.0086	< 0.00050	0.012	< 0.00020	0.0088	< 0.365	< 0.0025	< 0.0020	NA	
	8/31/2016	0.42	100	210	0.45	7.07	120	890	< 0.0030	0.0014	0.086	^ < 0.0010	< 0.00050	< 0.0050	0.0035	< 0.00050	0.011	< 0.00020	0.0083	0.432	< 0.0025	< 0.0020	NA	
	11/2/2016	0.32	98	160	0.43	7.25	83	750	< 0.0030	0.0025	0.079	< 0.0010	< 0.00050	< 0.0050	0.010	0.0012	0.012	< 0.00020	0.0070	< 0.463	< 0.0025	< 0.0020	NA	
	2/6/2017	0.40	110	200	0.37	7.19	98	790	< 0.0030	0.0015	0.100	< 0.0010	< 0.00050	< 0.0050	0.0160	< 0.00050	0.013	< 0.00020	0.0071	< 0.356	< 0.0025	< 0.0020	NA	
	4/26/2017	0.33	100	220	0.37	7.46	89	770	< 0.0030	0.0021	0.095	< 0.0010	< 0.00050	< 0.0050	0.0078	0.00055	0.012	< 0.00020	0.0069	< 0.35	< 0.0025	< 0.0020	NA	
	6/14/2017	0.37	92	190	0.47	7.45	80	770	< 0.0030	0.0013	0.078	< 0.0010	< 0.00050	< 0.0050	0.012	< 0.00050	0.013	< 0.00020	0.0085	< 0.309	< 0.0025	< 0.0020	NA	
	8/2/2017	0.35	93	180	0.43	7.41	100	770	< 0.0030	0.0013	0.077	< 0.0010	< 0.00050	0.040	0.0031	< 0.00050	0.012	< 0.00020	0.0091	< 0.282	0.0029	< 0.0020	NA	
	10/18/2017	0.54	97	140	0.45	7.20	120	790	< 0.0030	0.0019	0.082	^ < 0.0010	< 0.00050	< 0.0050	0.0046	0.00077	0.015	< 0.00020	0.0071	0.423	0.0030	^ < 0.0020	NA	
	4/24/2018	0.40	110	240	0.43	7.21	160	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/31/2018 R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/17/2018	0.29	100	230	0.45	7.20	130	840	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/7/2019	0.76	120	340	0.42	7.27	120	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/3/2019 R	0.23	NA	250	NA	NA	NA	870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2019	0.30	77	140	0.41	7.33	53	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/20/2020	0.79	110	250	0.45	7.30	110	1100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/11/2020 R	0.28	NA	NA	NA	NA	NA	850	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/22/2020	0.33	100	190	0.48	7.15	83	770	< 0.0030	0.0015	0.089	^ < 0.0010	< 0.00050	< 0.0050	0.0082	< 0.00050	0.013	< 0.00020	0.0061	NA	< 0.0025	< 0.0020	NA	
	5/18/2021	0.22	120	280	0.42	7.30	190	1100	< 0.0030	0.0019	0.12	< 0.0010	< 0.00050	< 0.0050	0.0037	< 0.00050	0.014	< 0.00020	< 0.0050	< 0.4450	< 0.0025	< 0.0020	2.52	
	6/29/2021 R	NA	NA	NA	NA	7.36	190	1200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.34
	8/30/2021	0.33	120	330	0.40	7.46	170	1000	^+ < 0.0030	0.0016	0.12	< 0.0010	< 0.00050	< 0.0050	0.0034	< 0.00050	0.013	< 0.00020	0.0057	0.877	0.0030	< 0.0020	18.30	
	11/16/2021	0.30	130	290	0.42	7.11	140	1000	< 0.0030	0.0021	0.12	^+ < 0.0010	< 0.00050	< 0.0050	0.0040	< 0.00050	0.011	< 0.00020	0.0059	0.892	< 0.0025	< 0.0020	4.20	
	3/3/2022	0.31	120	220	0.42	7.11	170	1300	< 0.0030	0.0018	0.12	< 0.0010	< 0.00050	< 0.0050	0.0029	< 0.00050	0.012	< 0.00020	0.0056	< 0.437	< 0.0025	< 0.0020	0.00	
	5/26/2022	0.26	110	290	0.44	6.94	150	1100	< 0.0030	0.0019	0.10	^+ < 0.0010	< 0.00050	< 0.0050	0.0036	< 0.00050	< 0.010	< 0.00020	< 0.0050	0.624	< 0.0025	< 0.0020	1.23	
	8/31/2022	0.32	120	240	0.45	6.38	150	870	< 0.0030	0.0016	0.11	< 0.0010	< 0.00050	< 0.0050	0.0018	< 0.00050	0.012	< 0.00020	0.0055	0.804	< 0.0025	< 0.0020	3.78	
	11/9/2022	0.34	120	240	0.61	7.08	150	940	< 0.0030	0.0021	0.11	< 0.0010	< 0.00050	< 0.0050	0.0030	^+ < 0.00050	0.012	< 0.00020	0.0056	0.666	< 0.0025	< 0.0020	43.50	
	2/28/2023	0.34	120	280	0.40	7.16	150	1100	< 0.0030	0.0019	0.10	< 0.0010	< 0.00050	< 0.0050	0.0078	< 0.00050	0.011	< 0.00020	0.0058	< 0.593	< 0.0025	< 0.0020	62.10	
	5/3/2023	0.28	110	290	0.40	6.97	160	1100	< 0.0030	0.0014	0.095	< 0.0010	< 0.00050	< 0.0050	0.0074	< 0.00050	0.011	< 0.00020	0.0051	< 0.488	< 0.0025	< 0.0020	6.30	
	7/20/2023	0.37	120	240	0.41	7.02	180	970	< 0.0030	0.0018	0.10	< 0.0010	< 0.00050	< 0.0050	0.0025	< 0.00050	0.012	< 0.00020	< 0.0050	< 0.601	0.0027	< 0.0020	6.00	
	10/26/2023	0.31	120	320	0.43	6.95	140	1100	< 0.0030	0.0016	0.094	< 0.0010	< 0.00050	< 0.0050	0.0063	< 0.00050	0.013	< 0.00020	0.0052	1.15	< 0.0025	< 0.0020	1.60	
	1/23/2024	0.42	99	200	0.38	6.93	150	970	^+ < 0.0030	0.002	0.091	^+ < 0.0010	< 0.00050	< 0.0050	0.0085	0.00051	0.018	< 0.00020	0.0056	< 0.649	< 0.0025	< 0.0020	80.10	
	5/22/2024	0.39	110	200	0.41	7.12	120	910	< 0.0030	0.0016	0.077	< 0.0010	< 0.00050	< 0.0050	0.0091	0.00054	0.013	< 0.00020	0.0056	0.586	< 0.0025	< 0.0020	24.27	
	7/30/2024	0.34	110	170	0.42	7.45	120	860	< 0.0030	0.0013	0.074	< 0.0010	< 0.00050	< 0.0050	0.0081	^+ < 0.00050	0.013	< 0.00020	0.0057	< 0.471	< 0.0025	< 0.0020	5.04	
	10/29/2024	0.38	120	190	0.43	7.32	120	980	< 0.0030	0.0013	0.078	< 0.0010	< 0.00050	< 0.0050	0.0095	< 0.00050	0.013	< 0.00020	0.0055	< 0.197	< 0.0025	< 0.0020	5.30	
	1/29/2025	0.36	120	210	0.46	7.16	140	920	< 0.0030	0.0015	0.079	^+ < 0.0010	< 0.00050	< 0.0050	0.013	< 0.00050	0.013	< 0.00020	0.0059	< 0.442	< 0.0025	< 0.0020	51.63	
	4/30/2025	0.35	130	290	0.39	7.27	160	1000	< 0.0030	0.0012	0.091	< 0.0010	< 0.00050	< 0.0050	0.0079	< 0.00050	0.012	< 0.00020	0.0050	0.927	< 0.0025	< 0.0020	4.03	
	8/7/2025	0.32	110	240	0.65	7.04	160	1100	< 0.0030	0.0011	0.084	< 0.0010	< 0.00050	< 0.0050	0.0026	< 0.00050	0.013	< 0.00020	< 0.0050	0.581	< 0.0025	< 0.0020	23.77	
	MW-05 downgradient	10/28/2015	0.64	100	160	0.39	7.12	120	790	< 0.0030	0.0011	0.057	^ < 0.0010	< 0.00050	< 0.0050	0.0013	< 0.00050	0.018	< 0.00020	0.0088	0.6231	0.0031	< 0.0020	NA
		2/10/2016	0.46	110	220	0.39	7.25	120	790	< 0.0030	0.0028	0.071	< 0.0010	< 0.00050	0.0062	0.0013	< 0.0022	< 0.020	< 0.00020	F1 0.0053	1.09	< 0.0025	< 0.0020	NA
5/10/2016		0.80	150	220	0.46	6.88	290	950	< 0.0030	0.0023	0.075	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.0022	0.014	< 0.00020	0.008	< 0.40	0.019	< 0.0020	NA	
8/31/2016		1.0	140	99	0.56	6.81	260	820	< 0.0030	< 0.0010	0.070	^ < 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.012	< 0.42	0.020	< 0.0020	NA	
11/2/2016		0.41	98	130	0.37	7.26	100	700	< 0.0030	0.0022	0.056	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.0017	0.015	< 0.00020	0.0061	0.438	< 0.0025	< 0.0020	NA	
2/6/2017		0.48	150	180	0.30	7.22	120	790	< 0.0030	0.0016	0.082	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.0016	0.021	< 0.00020	< 0.0050	0.564	0.0029	< 0.0020	NA	
4/26/2017		0.67	110	F1 190	0.37	7.28	170	770	< 0.0030	0.0014	0.063	&												

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

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

Generated 8/25/2025 4:13:46 PM

**JOB DESCRIPTION**

Joliet #29 CCR

**JOB NUMBER**

500-272772-1

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization



Generated  
8/25/2025 4:13:46 PM

Authorized for release by  
Robin Kintz, Project Manager II  
[Robin.Kintz@et.eurofinsus.com](mailto:Robin.Kintz@et.eurofinsus.com)  
Designee for  
Diana Mockler, Project Manager I  
[Diana.Mockler@et.eurofinsus.com](mailto:Diana.Mockler@et.eurofinsus.com)  
(219)252-7570



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	12
QC Association . . . . .	13
QC Sample Results . . . . .	15
Chain of Custody . . . . .	19
Receipt Checklists . . . . .	20
Chronicle . . . . .	21

# Case Narrative

Client: Midwest Generation EME LLC  
Project: Joliet #29 CCR

Job ID: 500-272772-1

**Job ID: 500-272772-1**

**Eurofins Chicago**

## Job Narrative 500-272772-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 8/7/2025 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1°C and 3.4°C.

### Metals

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

### General Chemistry

Method 4500\_F\_C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-829942 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Chicago

# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

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

**Protocol References:**

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

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

**Laboratory References:**

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

# Sample Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-272772-1	MW-03	Water	08/07/25 11:15	08/07/25 15:35	Illinois
500-272772-2	MW-04	Water	08/07/25 09:47	08/07/25 15:35	Illinois
500-272772-3	MW-05	Water	08/07/25 12:44	08/07/25 15:35	Illinois
500-272772-4	MW-10	Water	08/07/25 13:58	08/07/25 15:35	Illinois
500-272772-5	Duplicate	Water	08/07/25 00:00	08/07/25 15:35	Illinois

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

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-272772-1**

Date Collected: 08/07/25 11:15

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/14/25 13:40	08/19/25 13:45	1
<b>Arsenic</b>	<b>0.0011</b>		0.0010		mg/L		08/14/25 13:40	08/19/25 13:45	1
<b>Barium</b>	<b>0.12</b>		0.0025		mg/L		08/14/25 13:40	08/19/25 13:45	1
Beryllium	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 13:45	1
<b>Boron</b>	<b>0.28</b>		0.050		mg/L		08/14/25 13:40	08/19/25 13:45	1
Cadmium	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 13:45	1
<b>Calcium</b>	<b>120</b>		0.20		mg/L		08/14/25 13:40	08/19/25 13:45	1
Chromium	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 13:45	1
Cobalt	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 13:45	1
Lead	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 13:45	1
<b>Lithium</b>	<b>0.011</b>		0.010		mg/L		08/14/25 13:40	08/19/25 13:45	1
Molybdenum	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 13:45	1
Selenium	<0.0025		0.0025		mg/L		08/14/25 13:40	08/19/25 13:45	1
Thallium	<0.0020		0.0020		mg/L		08/14/25 13:40	08/19/25 13:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/15/25 10:15	08/18/25 11:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			08/12/25 08:07	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>270</b>		20		mg/L			08/17/25 10:56	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.61</b>		0.10		mg/L			08/13/25 11:41	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>180</b>		25		mg/L			08/11/25 11:30	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-272772-2**

Date Collected: 08/07/25 09:47

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/14/25 13:40	08/19/25 13:56	1
<b>Arsenic</b>	<b>0.0011</b>		0.0010		mg/L		08/14/25 13:40	08/19/25 13:56	1
<b>Barium</b>	<b>0.084</b>		0.0025		mg/L		08/14/25 13:40	08/19/25 13:56	1
Beryllium	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 13:56	1
<b>Boron</b>	<b>0.32</b>		0.050		mg/L		08/14/25 13:40	08/19/25 13:56	1
Cadmium	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 13:56	1
<b>Calcium</b>	<b>110</b>		0.20		mg/L		08/14/25 13:40	08/19/25 13:56	1
Chromium	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 13:56	1
<b>Cobalt</b>	<b>0.0026</b>		0.0010		mg/L		08/14/25 13:40	08/19/25 13:56	1
Lead	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 13:56	1
<b>Lithium</b>	<b>0.013</b>		0.010		mg/L		08/14/25 13:40	08/19/25 13:56	1
Molybdenum	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 13:56	1
Selenium	<0.0025		0.0025		mg/L		08/14/25 13:40	08/19/25 13:56	1
Thallium	<0.0020		0.0020		mg/L		08/14/25 13:40	08/19/25 13:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/15/25 10:15	08/18/25 11:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			08/12/25 08:10	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>240</b>		20		mg/L			08/17/25 10:57	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.65</b>		0.10		mg/L			08/13/25 11:45	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		25		mg/L			08/11/25 11:31	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

**Client Sample ID: MW-05**

**Lab Sample ID: 500-272772-3**

Date Collected: 08/07/25 12:44

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/14/25 13:40	08/19/25 14:00	1
Arsenic	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 14:00	1
<b>Barium</b>	<b>0.067</b>		0.0025		mg/L		08/14/25 13:40	08/19/25 14:00	1
Beryllium	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 14:00	1
<b>Boron</b>	<b>0.41</b>		0.050		mg/L		08/14/25 13:40	08/19/25 14:00	1
Cadmium	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 14:00	1
<b>Calcium</b>	<b>110</b>		0.20		mg/L		08/14/25 13:40	08/19/25 14:00	1
Chromium	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 14:00	1
Cobalt	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 14:00	1
Lead	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 14:00	1
<b>Lithium</b>	<b>0.017</b>		0.010		mg/L		08/14/25 13:40	08/19/25 14:00	1
Molybdenum	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 14:00	1
Selenium	<0.0025		0.0025		mg/L		08/14/25 13:40	08/19/25 14:00	1
Thallium	<0.0020		0.0020		mg/L		08/14/25 13:40	08/19/25 14:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/15/25 10:15	08/18/25 11:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			08/12/25 08:12	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>240</b>		20		mg/L			08/17/25 10:57	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.49</b>		0.10		mg/L			08/13/25 11:52	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>170</b>		25		mg/L			08/11/25 11:31	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-272772-4**

Date Collected: 08/07/25 13:58

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/14/25 13:40	08/19/25 14:02	1
Arsenic	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 14:02	1
<b>Barium</b>	<b>0.045</b>		0.0025		mg/L		08/14/25 13:40	08/19/25 14:02	1
Beryllium	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 14:02	1
<b>Boron</b>	<b>0.35</b>		0.050		mg/L		08/14/25 13:40	08/19/25 14:02	1
Cadmium	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 14:02	1
<b>Calcium</b>	<b>110</b>		0.20		mg/L		08/14/25 13:40	08/19/25 14:02	1
Chromium	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 14:02	1
Cobalt	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 14:02	1
Lead	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 14:02	1
<b>Lithium</b>	<b>0.013</b>		0.010		mg/L		08/14/25 13:40	08/19/25 14:02	1
<b>Molybdenum</b>	<b>0.0055</b>		0.0050		mg/L		08/14/25 13:40	08/19/25 14:02	1
Selenium	<0.0025		0.0025		mg/L		08/14/25 13:40	08/19/25 14:02	1
Thallium	<0.0020		0.0020		mg/L		08/14/25 13:40	08/19/25 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/15/25 10:15	08/18/25 11:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1000</b>		10		mg/L			08/12/25 08:15	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>240</b>		20		mg/L			08/17/25 10:57	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.60</b>		0.10		mg/L			08/13/25 11:55	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>180</b>		25		mg/L			08/11/25 11:31	5

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-272772-5**

Date Collected: 08/07/25 00:00

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/14/25 13:40	08/19/25 14:09	1
<b>Arsenic</b>	<b>0.0011</b>		0.0010		mg/L		08/14/25 13:40	08/19/25 14:09	1
<b>Barium</b>	<b>0.12</b>		0.0025		mg/L		08/14/25 13:40	08/19/25 14:09	1
Beryllium	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 14:09	1
<b>Boron</b>	<b>0.29</b>		0.050		mg/L		08/14/25 13:40	08/19/25 14:09	1
Cadmium	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 14:09	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		08/14/25 13:40	08/19/25 14:09	1
Chromium	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 14:09	1
Cobalt	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 14:09	1
Lead	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 14:09	1
<b>Lithium</b>	<b>0.012</b>		0.010		mg/L		08/14/25 13:40	08/19/25 14:09	1
Molybdenum	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 14:09	1
Selenium	<0.0025		0.0025		mg/L		08/14/25 13:40	08/19/25 14:09	1
Thallium	<0.0020		0.0020		mg/L		08/14/25 13:40	08/19/25 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/15/25 10:15	08/18/25 11:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			08/12/25 08:18	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>270</b>		20		mg/L			08/17/25 10:57	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.63</b>	<b>F1</b>	0.10		mg/L			08/13/25 12:10	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>180</b>		25		mg/L			08/11/25 11:31	5

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

## Qualifiers

### Metals

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

### General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

## Glossary

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

# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

## Metals

### Prep Batch: 830132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total Recoverable	Water	3005A	
500-272772-2	MW-04	Total Recoverable	Water	3005A	
500-272772-3	MW-05	Total Recoverable	Water	3005A	
500-272772-4	MW-10	Total Recoverable	Water	3005A	
500-272772-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-830132/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-830132/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-272772-1 MS	MW-03	Total Recoverable	Water	3005A	
500-272772-1 MSD	MW-03	Total Recoverable	Water	3005A	
500-272772-1 DU	MW-03	Total Recoverable	Water	3005A	

### Prep Batch: 830275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total/NA	Water	7470A	
500-272772-2	MW-04	Total/NA	Water	7470A	
500-272772-3	MW-05	Total/NA	Water	7470A	
500-272772-4	MW-10	Total/NA	Water	7470A	
500-272772-5	Duplicate	Total/NA	Water	7470A	
MB 500-830275/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-830275/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 830487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total/NA	Water	7470A	830275
500-272772-2	MW-04	Total/NA	Water	7470A	830275
500-272772-3	MW-05	Total/NA	Water	7470A	830275
500-272772-4	MW-10	Total/NA	Water	7470A	830275
500-272772-5	Duplicate	Total/NA	Water	7470A	830275
MB 500-830275/12-A	Method Blank	Total/NA	Water	7470A	830275
LCS 500-830275/13-A	Lab Control Sample	Total/NA	Water	7470A	830275

### Analysis Batch: 830756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total Recoverable	Water	6020B	830132
500-272772-2	MW-04	Total Recoverable	Water	6020B	830132
500-272772-3	MW-05	Total Recoverable	Water	6020B	830132
500-272772-4	MW-10	Total Recoverable	Water	6020B	830132
500-272772-5	Duplicate	Total Recoverable	Water	6020B	830132
MB 500-830132/1-A	Method Blank	Total Recoverable	Water	6020B	830132
LCS 500-830132/2-A	Lab Control Sample	Total Recoverable	Water	6020B	830132
500-272772-1 MS	MW-03	Total Recoverable	Water	6020B	830132
500-272772-1 MSD	MW-03	Total Recoverable	Water	6020B	830132
500-272772-1 DU	MW-03	Total Recoverable	Water	6020B	830132

## General Chemistry

### Analysis Batch: 829509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-272772-2	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-272772-3	MW-05	Total/NA	Water	SM 4500 SO4 E	

Eurofins Chicago

# QC Association Summary

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

## General Chemistry (Continued)

### Analysis Batch: 829509 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-272772-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-829509/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-829509/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 829600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total/NA	Water	SM 2540C	
500-272772-2	MW-04	Total/NA	Water	SM 2540C	
500-272772-3	MW-05	Total/NA	Water	SM 2540C	
500-272772-4	MW-10	Total/NA	Water	SM 2540C	
500-272772-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-829600/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-829600/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 829942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total/NA	Water	SM 4500 F C	
500-272772-2	MW-04	Total/NA	Water	SM 4500 F C	
500-272772-3	MW-05	Total/NA	Water	SM 4500 F C	
500-272772-4	MW-10	Total/NA	Water	SM 4500 F C	
500-272772-5	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-829942/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-829942/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-829942/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-829942/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-272772-5 MS	Duplicate	Total/NA	Water	SM 4500 F C	
500-272772-5 MSD	Duplicate	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 830368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total/NA	Water	SM 4500 CI- E	
500-272772-2	MW-04	Total/NA	Water	SM 4500 CI- E	
500-272772-3	MW-05	Total/NA	Water	SM 4500 CI- E	
500-272772-4	MW-10	Total/NA	Water	SM 4500 CI- E	
500-272772-5	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-830368/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-830368/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

# QC Sample Results

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

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

**Lab Sample ID: MB 500-830132/1-A**  
**Matrix: Water**  
**Analysis Batch: 830756**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 830132**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		08/14/25 13:40	08/19/25 13:41	1
Arsenic	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 13:41	1
Barium	<0.0025		0.0025		mg/L		08/14/25 13:40	08/19/25 13:41	1
Beryllium	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 13:41	1
Boron	<0.050		0.050		mg/L		08/14/25 13:40	08/19/25 13:41	1
Cadmium	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 13:41	1
Calcium	<0.20		0.20		mg/L		08/14/25 13:40	08/19/25 13:41	1
Chromium	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 13:41	1
Cobalt	<0.0010		0.0010		mg/L		08/14/25 13:40	08/19/25 13:41	1
Lead	<0.00050		0.00050		mg/L		08/14/25 13:40	08/19/25 13:41	1
Lithium	<0.010		0.010		mg/L		08/14/25 13:40	08/19/25 13:41	1
Molybdenum	<0.0050		0.0050		mg/L		08/14/25 13:40	08/19/25 13:41	1
Selenium	<0.0025		0.0025		mg/L		08/14/25 13:40	08/19/25 13:41	1
Thallium	<0.0020		0.0020		mg/L		08/14/25 13:40	08/19/25 13:41	1

**Lab Sample ID: LCS 500-830132/2-A**  
**Matrix: Water**  
**Analysis Batch: 830756**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 830132**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.512		mg/L		102	80 - 120
Arsenic	0.100	0.0944		mg/L		94	80 - 120
Barium	0.500	0.479		mg/L		96	80 - 120
Beryllium	0.0500	0.0475		mg/L		95	80 - 120
Boron	1.00	0.944		mg/L		94	80 - 120
Cadmium	0.0500	0.0481		mg/L		96	80 - 120
Calcium	10.0	8.07		mg/L		81	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.100	0.0999		mg/L		100	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	0.974		mg/L		97	80 - 120
Selenium	0.100	0.0978		mg/L		98	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

**Lab Sample ID: 500-272772-1 MS**  
**Matrix: Water**  
**Analysis Batch: 830756**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 830132**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0030		0.500	0.505		mg/L		101	75 - 125
Arsenic	0.0011		0.100	0.0956		mg/L		95	75 - 125
Barium	0.12		0.500	0.593		mg/L		95	75 - 125
Beryllium	<0.0010		0.0500	0.0473		mg/L		95	75 - 125
Boron	0.28		1.00	1.27		mg/L		99	75 - 125
Cadmium	<0.00050		0.0500	0.0479		mg/L		96	75 - 125
Calcium	120		10.0	135	4	mg/L		119	75 - 125
Chromium	<0.0050		0.200	0.192		mg/L		96	75 - 125
Cobalt	<0.0010		0.500	0.490		mg/L		98	75 - 125

Eurofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

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

**Lab Sample ID: 500-272772-1 MS**  
**Matrix: Water**  
**Analysis Batch: 830756**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 830132**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				Limits	
Lead	<0.00050		0.100	0.100		mg/L		100	75 - 125	
Lithium	0.011		0.100	0.110		mg/L		99	75 - 125	
Molybdenum	<0.0050		1.00	1.01		mg/L		100	75 - 125	
Selenium	<0.0025		0.100	0.0972		mg/L		96	75 - 125	
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125	

**Lab Sample ID: 500-272772-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 830756**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 830132**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	<0.0030		0.500	0.511		mg/L		102	75 - 125	1	20
Arsenic	0.0011		0.100	0.0963		mg/L		95	75 - 125	1	20
Barium	0.12		0.500	0.589		mg/L		94	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0483		mg/L		97	75 - 125	2	20
Boron	0.28		1.00	1.27		mg/L		100	75 - 125	1	20
Cadmium	<0.00050		0.0500	0.0482		mg/L		96	75 - 125	1	20
Calcium	120		10.0	135	4	mg/L		119	75 - 125	0	20
Chromium	<0.0050		0.200	0.191		mg/L		96	75 - 125	0	20
Cobalt	<0.0010		0.500	0.490		mg/L		98	75 - 125	0	20
Lead	<0.00050		0.100	0.101		mg/L		101	75 - 125	1	20
Lithium	0.011		0.100	0.114		mg/L		102	75 - 125	3	20
Molybdenum	<0.0050		1.00	1.01		mg/L		101	75 - 125	0	20
Selenium	<0.0025		0.100	0.0953		mg/L		94	75 - 125	2	20
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125	0	20

**Lab Sample ID: 500-272772-1 DU**  
**Matrix: Water**  
**Analysis Batch: 830756**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 830132**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0011		0.00116		mg/L		6	20
Barium	0.12		0.120		mg/L		1	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.28		0.285		mg/L		3	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	120		126		mg/L		2	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Lithium	0.011		0.0114		mg/L		0.7	20
Molybdenum	<0.0050		<0.0050		mg/L		NC	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

# QC Sample Results

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-830275/12-A  
Matrix: Water  
Analysis Batch: 830487

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 830275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/15/25 10:15	08/18/25 10:51	1

Lab Sample ID: LCS 500-830275/13-A  
Matrix: Water  
Analysis Batch: 830487

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 830275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00203		mg/L		102	80 - 120

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

Lab Sample ID: MB 500-829600/1  
Matrix: Water  
Analysis Batch: 829600

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			08/12/25 07:47	1

Lab Sample ID: LCS 500-829600/2  
Matrix: Water  
Analysis Batch: 829600

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

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

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

Lab Sample ID: MB 500-830368/16  
Matrix: Water  
Analysis Batch: 830368

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/17/25 10:38	1

Lab Sample ID: LCS 500-830368/17  
Matrix: Water  
Analysis Batch: 830368

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.7		mg/L		98	85 - 115

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-829942/3  
Matrix: Water  
Analysis Batch: 829942

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			08/13/25 09:58	1

Eurofins Chicago

# QC Sample Results

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

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

**Lab Sample ID: MB 500-829942/31**  
**Matrix: Water**  
**Analysis Batch: 829942**

**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			08/13/25 11:59	1

**Lab Sample ID: LCS 500-829942/32**  
**Matrix: Water**  
**Analysis Batch: 829942**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.84		mg/L		98	90 - 119

**Lab Sample ID: LCS 500-829942/4**  
**Matrix: Water**  
**Analysis Batch: 829942**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.62		mg/L		96	90 - 119

**Lab Sample ID: 500-272772-5 MS**  
**Matrix: Water**  
**Analysis Batch: 829942**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.63	F1	5.00	8.03	F1	mg/L		148	75 - 125

**Lab Sample ID: 500-272772-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 829942**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.63	F1	5.00	7.97	F1	mg/L		147	75 - 125	1	20

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

**Lab Sample ID: MB 500-829509/16**  
**Matrix: Water**  
**Analysis Batch: 829509**

**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			08/11/25 11:13	1

**Lab Sample ID: LCS 500-829509/17**  
**Matrix: Water**  
**Analysis Batch: 829509**

**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	21.1		mg/L		106	88 - 123



## Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-272772-1

**Login Number: 272772**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-272772-1**

Date Collected: 08/07/25 11:15

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			830132	MS	EET CHI	08/14/25 13:40 - 08/14/25 19:40 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830756	RN	EET CHI	08/19/25 13:45
Total/NA	Prep	7470A			830275	MJG	EET CHI	08/15/25 10:15 - 08/15/25 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	830487	MJG	EET CHI	08/18/25 11:30
Total/NA	Analysis	SM 2540C		1	829600	CLB	EET CHI	08/12/25 08:07
Total/NA	Analysis	SM 4500 CI- E		10	830368	TR	EET CHI	08/17/25 10:56
Total/NA	Analysis	SM 4500 F C		1	829942	AC	EET CHI	08/13/25 11:41
Total/NA	Analysis	SM 4500 SO4 E		5	829509	TR	EET CHI	08/11/25 11:30

**Client Sample ID: MW-04**

**Lab Sample ID: 500-272772-2**

Date Collected: 08/07/25 09:47

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			830132	MS	EET CHI	08/14/25 13:40 - 08/14/25 19:40 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830756	RN	EET CHI	08/19/25 13:56
Total/NA	Prep	7470A			830275	MJG	EET CHI	08/15/25 10:15 - 08/15/25 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	830487	MJG	EET CHI	08/18/25 11:32
Total/NA	Analysis	SM 2540C		1	829600	CLB	EET CHI	08/12/25 08:10
Total/NA	Analysis	SM 4500 CI- E		10	830368	TR	EET CHI	08/17/25 10:57
Total/NA	Analysis	SM 4500 F C		1	829942	AC	EET CHI	08/13/25 11:45
Total/NA	Analysis	SM 4500 SO4 E		5	829509	TR	EET CHI	08/11/25 11:31

**Client Sample ID: MW-05**

**Lab Sample ID: 500-272772-3**

Date Collected: 08/07/25 12:44

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			830132	MS	EET CHI	08/14/25 13:40 - 08/14/25 19:40 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830756	RN	EET CHI	08/19/25 14:00
Total/NA	Prep	7470A			830275	MJG	EET CHI	08/15/25 10:15 - 08/15/25 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	830487	MJG	EET CHI	08/18/25 11:34
Total/NA	Analysis	SM 2540C		1	829600	CLB	EET CHI	08/12/25 08:12
Total/NA	Analysis	SM 4500 CI- E		10	830368	TR	EET CHI	08/17/25 10:57
Total/NA	Analysis	SM 4500 F C		1	829942	AC	EET CHI	08/13/25 11:52
Total/NA	Analysis	SM 4500 SO4 E		5	829509	TR	EET CHI	08/11/25 11:31

**Client Sample ID: MW-10**

**Lab Sample ID: 500-272772-4**

Date Collected: 08/07/25 13:58

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			830132	MS	EET CHI	08/14/25 13:40 - 08/14/25 19:40 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830756	RN	EET CHI	08/19/25 14:02

Eurofins Chicago

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-272772-4**

Date Collected: 08/07/25 13:58

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			830275	MJG	EET CHI	08/15/25 10:15 - 08/15/25 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	830487	MJG	EET CHI	08/18/25 11:36
Total/NA	Analysis	SM 2540C		1	829600	CLB	EET CHI	08/12/25 08:15
Total/NA	Analysis	SM 4500 Cl- E		10	830368	TR	EET CHI	08/17/25 10:57
Total/NA	Analysis	SM 4500 F C		1	829942	AC	EET CHI	08/13/25 11:55
Total/NA	Analysis	SM 4500 SO4 E		5	829509	TR	EET CHI	08/11/25 11:31

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-272772-5**

Date Collected: 08/07/25 00:00

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			830132	MS	EET CHI	08/14/25 13:40 - 08/14/25 19:40 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830756	RN	EET CHI	08/19/25 14:09
Total/NA	Prep	7470A			830275	MJG	EET CHI	08/15/25 10:15 - 08/15/25 12:15 <sup>1</sup>
Total/NA	Analysis	7470A		1	830487	MJG	EET CHI	08/18/25 11:38
Total/NA	Analysis	SM 2540C		1	829600	CLB	EET CHI	08/12/25 08:18
Total/NA	Analysis	SM 4500 Cl- E		10	830368	TR	EET CHI	08/17/25 10:57
Total/NA	Analysis	SM 4500 F C		1	829942	AC	EET CHI	08/13/25 12:10
Total/NA	Analysis	SM 4500 SO4 E		5	829509	TR	EET CHI	08/11/25 11:31

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

**Laboratory References:**

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

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

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

Generated 09/05/25 15:04:34

**JOB DESCRIPTION**

Joliet #29 CCR

**JOB NUMBER**

500-272772-2

# Eurofins Chicago

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization



Generated  
09/05/25 15:04:34

Authorized for release by  
Dirk Nelson, Project Management Assistant II  
[Dirk.Nelson@et.eurofinsus.com](mailto:Dirk.Nelson@et.eurofinsus.com)  
Designee for  
Diana Mockler, Project Manager I  
[Diana.Mockler@et.eurofinsus.com](mailto:Diana.Mockler@et.eurofinsus.com)  
(219)252-7570

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	12
QC Association . . . . .	13
QC Sample Results . . . . .	14
Chain of Custody . . . . .	15
Receipt Checklists . . . . .	17
Chronicle . . . . .	19
Tracer Carrier Summary . . . . .	21



# Case Narrative

Client: Midwest Generation EME LLC  
Project: Joliet #29 CCR

Job ID: 500-272772-2

**Job ID: 500-272772-2**

**Eurofins Chicago**

## Job Narrative 500-272772-2

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 8/7/2025 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.1°C and 3.4°C.

### Gas Flow Proportional Counter

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

### Rad

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

Eurofins Chicago

# Method Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

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

**Protocol References:**

EPA = US Environmental Protection Agency

None = None

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

**Laboratory References:**

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



# Sample Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-272772-1	MW-03	Water	08/07/25 11:15	08/07/25 15:35	Illinois
500-272772-2	MW-04	Water	08/07/25 09:47	08/07/25 15:35	Illinois
500-272772-3	MW-05	Water	08/07/25 12:44	08/07/25 15:35	Illinois
500-272772-4	MW-10	Water	08/07/25 13:58	08/07/25 15:35	Illinois
500-272772-5	Duplicate	Water	08/07/25 00:00	08/07/25 15:35	Illinois

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

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

**Client Sample ID: MW-03**

**Lab Sample ID: 500-272772-1**

Date Collected: 08/07/25 11:15

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.0874	0.0879	1.00	0.128	pCi/L	08/13/25 08:12	09/04/25 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					08/13/25 08:12	09/04/25 14:18	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	0.230	U	0.307	0.308	1.00	0.514	pCi/L	08/13/25 08:17	08/28/25 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					08/13/25 08:17	08/28/25 11:51	1
Y Carrier	86.4		30 - 110					08/13/25 08:17	08/28/25 11:51	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	0.342	U	0.319	0.320	5.00	0.514	pCi/L		09/03/25 14:01	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

**Client Sample ID: MW-04**

**Lab Sample ID: 500-272772-2**

Date Collected: 08/07/25 09:47

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0679	U	0.0772	0.0774	1.00	0.125	pCi/L	08/13/25 08:12	09/04/25 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/13/25 08:12	09/04/25 14:18	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	0.513		0.330	0.333	1.00	0.488	pCi/L	08/13/25 08:17	08/28/25 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/13/25 08:17	08/28/25 11:51	1
Y Carrier	86.0		30 - 110					08/13/25 08:17	08/28/25 11:51	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	0.581		0.339	0.342	5.00	0.488	pCi/L		09/03/25 14:01	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

**Client Sample ID: MW-05**

**Lab Sample ID: 500-272772-3**

Date Collected: 08/07/25 12:44

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0141	U	0.0837	0.0837	1.00	0.157	pCi/L	08/13/25 08:12	09/04/25 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/13/25 08:12	09/04/25 14:18	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	0.0314	U	0.297	0.297	1.00	0.544	pCi/L	08/13/25 08:17	08/28/25 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.0		30 - 110					08/13/25 08:17	08/28/25 11:52	1
Y Carrier	81.9		30 - 110					08/13/25 08:17	08/28/25 11:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.0455	U	0.309	0.309	5.00	0.544	pCi/L		09/03/25 14:01	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

**Client Sample ID: MW-10**

**Lab Sample ID: 500-272772-4**

Date Collected: 08/07/25 13:58

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0827	U	0.104	0.104	1.00	0.172	pCi/L	08/13/25 08:12	09/04/25 14:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					08/13/25 08:12	09/04/25 14:18	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	0.258	U	0.342	0.343	1.00	0.572	pCi/L	08/13/25 08:17	08/28/25 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.1		30 - 110					08/13/25 08:17	08/28/25 11:52	1
Y Carrier	81.1		30 - 110					08/13/25 08:17	08/28/25 11:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.340	U	0.357	0.358	5.00	0.572	pCi/L		09/03/25 14:01	1

# Client Sample Results

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-272772-5**

Date Collected: 08/07/25 00:00

Matrix: Water

Date Received: 08/07/25 15:35

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137	U	0.101	0.102	1.00	0.148	pCi/L	08/13/25 08:12	09/04/25 14:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/13/25 08:12	09/04/25 14:17	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	0.392	U	0.278	0.281	1.00	0.413	pCi/L	08/13/25 08:17	08/28/25 11:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/13/25 08:17	08/28/25 11:52	1
Y Carrier	83.7		30 - 110					08/13/25 08:17	08/28/25 11:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.529		0.296	0.299	5.00	0.413	pCi/L		09/03/25 14:01	1

# Definitions/Glossary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

## Glossary

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

# QC Association Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

## Rad

### Prep Batch: 731798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total/NA	Water	PrecSep-21	
500-272772-2	MW-04	Total/NA	Water	PrecSep-21	
500-272772-3	MW-05	Total/NA	Water	PrecSep-21	
500-272772-4	MW-10	Total/NA	Water	PrecSep-21	
500-272772-5	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-731798/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-731798/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 731799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272772-1	MW-03	Total/NA	Water	PrecSep_0	
500-272772-2	MW-04	Total/NA	Water	PrecSep_0	
500-272772-3	MW-05	Total/NA	Water	PrecSep_0	
500-272772-4	MW-10	Total/NA	Water	PrecSep_0	
500-272772-5	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-731799/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-731799/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

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

**Lab Sample ID: MB 160-731798/1-A**  
**Matrix: Water**  
**Analysis Batch: 734802**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 731798**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.008647	U	0.0407	0.0407	1.00	0.0959	pCi/L	08/13/25 08:12	09/04/25 07:25	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	92.1		30 - 110		08/13/25 08:12	09/04/25 07:25	1			

**Lab Sample ID: LCS 160-731798/2-A**  
**Matrix: Water**  
**Analysis Batch: 734802**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 731798**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.57	9.556		1.02	1.00	0.119	pCi/L	100	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	92.6		30 - 110						

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

**Lab Sample ID: MB 160-731799/1-A**  
**Matrix: Water**  
**Analysis Batch: 734026**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 731799**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.06391	U	0.304	0.304	1.00	0.581	pCi/L	08/13/25 08:17	08/28/25 11:46	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	92.1		30 - 110		08/13/25 08:17	08/28/25 11:46	1			
Y Carrier	80.4		30 - 110		08/13/25 08:17	08/28/25 11:46	1			

**Lab Sample ID: LCS 160-731799/2-A**  
**Matrix: Water**  
**Analysis Batch: 734026**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 731799**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	9.12	9.854		1.33	1.00	0.603	pCi/L	108	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	92.6		30 - 110						
Y Carrier	82.2		30 - 110						



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Mockler, Diana J	Carrier Tracking No(s): N/A	COC No: 500-210049.1	
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-272772-2	Preservation Codes:	
Address: 13715 Rider Trail North, Earth City, MO, 63045		Due Date Requested: 9/8/2025		Analysis Requested:		
Phone: 314-298-8666(Tel) 314-298-8757(Fax)		TAT Requested (days): N/A		903.0/PreSep_21 Standard Target List		
Email: N/A		PO #: N/A		904.0/PreSep_05 Standard Target List		
Project Name: Joliet #29 CCR		MO #: N/A		Perform MS/MSD (Yes or No)		
Site: NRG Midwest Generation LSQ Joliet#29 CCR		Project #: 50011568		Field Filtered Sample (Yes or No)		
		SSOW#: N/A		Matrix (W=water, S=solid, O=wast/oli, ST=stasis, A=alt)		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix	Special Instructions/Note:
MW-03 (500-272772-1)	8/7/25	11:15 Central	G		Water	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-04 (500-272772-2)	8/7/25	09:47 Central	G		Water	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-05 (500-272772-3)	8/7/25	12:44 Central	G		Water	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-10 (500-272772-4)	8/7/25	13:58 Central	G		Water	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
Duplicate (500-272772-5)	8/7/25	Central	G		Water	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
Total Number of containers: 3						
Other: N/A						

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

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

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

Relinquished by: *Michelle Leath* Date/Time: 8/7/25 16:30 Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

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

Custody Seal No.: \_\_\_\_\_ Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

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

Received by: *M. Pinette* Date/Time: AUG 08 2025 08:20 Company: \_\_\_\_\_  
 Received by: Meadow Pinette Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_



## Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-272772-2

**Login Number: 272772**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



## Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-272772-2

**Login Number: 272772**

**List Number: 2**

**Creator: Pinette, Meadow L**

**List Source: Eurofins St. Louis**

**List Creation: 08/08/25 11:46 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

# Lab Chronicle

Client: Midwest Generation EME LLC  
 Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

**Client Sample ID: MW-03**

**Lab Sample ID: 500-272772-1**

Date Collected: 08/07/25 11:15

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731798	JTR	EET SL	08/13/25 08:12
Total/NA	Analysis	903.0		1	734807	SWS	EET SL	09/04/25 14:18
Total/NA	Prep	PrecSep_0			731799	JTR	EET SL	08/13/25 08:17
Total/NA	Analysis	904.0		1	734041	SWS	EET SL	08/28/25 11:51
Total/NA	Analysis	Ra226_Ra228		1	734645	FLC	EET SL	09/03/25 14:01

**Client Sample ID: MW-04**

**Lab Sample ID: 500-272772-2**

Date Collected: 08/07/25 09:47

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731798	JTR	EET SL	08/13/25 08:12
Total/NA	Analysis	903.0		1	734807	SWS	EET SL	09/04/25 14:18
Total/NA	Prep	PrecSep_0			731799	JTR	EET SL	08/13/25 08:17
Total/NA	Analysis	904.0		1	734041	SWS	EET SL	08/28/25 11:51
Total/NA	Analysis	Ra226_Ra228		1	734645	FLC	EET SL	09/03/25 14:01

**Client Sample ID: MW-05**

**Lab Sample ID: 500-272772-3**

Date Collected: 08/07/25 12:44

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731798	JTR	EET SL	08/13/25 08:12
Total/NA	Analysis	903.0		1	734807	SWS	EET SL	09/04/25 14:18
Total/NA	Prep	PrecSep_0			731799	JTR	EET SL	08/13/25 08:17
Total/NA	Analysis	904.0		1	734041	SWS	EET SL	08/28/25 11:52
Total/NA	Analysis	Ra226_Ra228		1	734645	FLC	EET SL	09/03/25 14:01

**Client Sample ID: MW-10**

**Lab Sample ID: 500-272772-4**

Date Collected: 08/07/25 13:58

Matrix: Water

Date Received: 08/07/25 15:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731798	JTR	EET SL	08/13/25 08:12
Total/NA	Analysis	903.0		1	734807	SWS	EET SL	09/04/25 14:18
Total/NA	Prep	PrecSep_0			731799	JTR	EET SL	08/13/25 08:17
Total/NA	Analysis	904.0		1	734041	SWS	EET SL	08/28/25 11:52
Total/NA	Analysis	Ra226_Ra228		1	734645	FLC	EET SL	09/03/25 14:01

# Lab Chronicle

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-272772-5**

**Date Collected: 08/07/25 00:00**

**Matrix: Water**

**Date Received: 08/07/25 15:35**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731798	JTR	EET SL	08/13/25 08:12
Total/NA	Analysis	903.0		1	734807	SWS	EET SL	09/04/25 14:17
Total/NA	Prep	PrecSep_0			731799	JTR	EET SL	08/13/25 08:17
Total/NA	Analysis	904.0		1	734041	SWS	EET SL	08/28/25 11:52
Total/NA	Analysis	Ra226_Ra228		1	734645	FLC	EET SL	09/03/25 14:01

**Laboratory References:**

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



# Tracer/Carrier Summary

Client: Midwest Generation EME LLC  
Project/Site: Joliet #29 CCR

Job ID: 500-272772-2

## 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)
500-272772-1	MW-03	89.1
500-272772-2	MW-04	94.3
500-272772-3	MW-05	95.0
500-272772-4	MW-10	90.1
500-272772-5	Duplicate	96.5
LCS 160-731798/2-A	Lab Control Sample	92.6
MB 160-731798/1-A	Method Blank	92.1

#### 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)
500-272772-1	MW-03	89.1	86.4
500-272772-2	MW-04	94.3	86.0
500-272772-3	MW-05	95.0	81.9
500-272772-4	MW-10	90.1	81.1
500-272772-5	Duplicate	96.5	83.7
LCS 160-731799/2-A	Lab Control Sample	92.6	82.2
MB 160-731799/1-A	Method Blank	92.1	80.4

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	8-7-25
Sample Name	MW-03	Start Time	11:00	
Condition of Well	GOOD			
Water Level	33.30	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	1.75 QRS.	W L at Sample Time	33.31	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR CCA - FILTERED	
Sample Analysis	CCA + CCR + CCR DUP	Sample Time	11:15	
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)
11:03	33.32	7.48	19.9	1.800	8.65	113.3	2.14
11:06	33.31	7.18	16.5	1.878	9.30	123.9	2.20
11:09	33.32	7.06	15.5	1.944	7.65	128.9	3.13
11:12	33.31	7.05	15.4	1.950	7.16	129.8	3.20
11:15	33.31	7.04	15.3	1.953	7.04	130.2	3.14
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	8-7-25
Sample Name	MW-04	Start Time	09:32	
Condition of Well	GOOD			
Water Level	33.58	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS TASTE ODORLESS TURB	
Volume Removed	2.0 QTS	W L at Sample Time	33.58	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR CCA-FILTERED	
Sample Analysis	CCA + CCR	Sample Time	09:47	
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)
09:35	33.57	7.10	15.5	1.911	7.00	121.5	22.15
09:38	33.58	7.07	14.8	1.868	6.36	123.3	22.76
09:41	33.58	7.06	14.6	1.848	5.90	123.9	23.12
09:44	33.59	7.04	14.4	1.836	5.50	124.0	23.68
09:47	33.58	7.04	14.4	1.834	5.38	124.0	23.77
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	8-7-25
Sample Name	MW-05	Start Time	12:29	
Condition of Well	GOOD			
Water Level	34.33	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.0 GALS	W L at Sample Time	34.34	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR CCA-FILTERED	
Sample Analysis	CCA + CCR	Sample Time	12:44	
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)
12:32	34.34	7.27	17.2	1.843	9.11	118.7	1.58
12:35	34.34	7.07	14.9	1.828	6.79	127.4	1.95
12:38	34.34	7.04	14.7	1.794	5.85	128.6	3.14
12:41	34.34	7.03	14.7	1.767	5.54	128.8	3.57
12:44	34.34	7.03	14.7	1.761	5.41	128.9	3.51

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	8-7-25
Sample Name	MW-10	Start Time	13:43	
Condition of Well	Good			
Water Level	34.51	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	Colorless Odorless	
Volume Removed	2.0 QTS	W L at Sample Time	34.51	
Method of Sample	Low-Flow	Sample Characteristics	Appears Clear CCA - Filtered	
Sample Analysis	CCA + CCR + CCA DUP	Sample Time	13:58	
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)
13:46	34.52	7.12	14.4	1.850	8.60	123.8	6.54
13:49	34.51	7.04	14.5	1.819	7.53	127.1	6.91
13:52	34.51	7.02	14.5	1.804	6.90	128.3	7.74
13:55	34.51	7.02	14.5	1.799	6.79	128.6	7.89
13:58	34.51	7.01	14.4	1.798	6.72	128.7	8.41
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

