

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 4th 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	0.051	^+ < 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	
	11/6/2025	0.39	120	200	0.45	6.97	170	1000	< 0.0030	< 0.0010	0.050	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.00020	0.0068	< 0.424	< 0.0025	< 0.0020	2.78	
	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																			

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	NA	NA	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	
	11/6/2025	0.33	120	250	0.49	7.01	170	970	< 0.0030	0.0012	0.090	< 0.0010	< 0.00050	< 0.0050	0.0046	< 0.00050	0.014	< 0.00020	0.0062	< 0.679	< 0.0025	< 0.0020	3.22	
	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	0.0051	< 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	< 0.0												

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

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

Generated 11/21/25 14:15:45

JOB DESCRIPTION

Joliet #29 CCR

JOB NUMBER

500-277523-1

Eurofins Chicago

Job Notes

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Authorization



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11/21/25 14:15:45

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Case Narrative

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

Job ID: 500-277523-1

Job ID: 500-277523-1

Eurofins Chicago

Job Narrative 500-277523-1

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 11/6/2025 2:40 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 4.1°C and 4.7°C.

Metals

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

General Chemistry

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

Field Service / Mobile Lab

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

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Method Summary

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

Job ID: 500-277523-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

EET CHI = Eurofins Chicago, 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: 500-277523-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-277523-1	MW-03	Water	11/06/25 13:18	11/06/25 14:40	Illinois
500-277523-2	MW-04	Water	11/06/25 12:00	11/06/25 14:40	Illinois
500-277523-3	MW-05	Water	11/06/25 09:19	11/06/25 14:40	Illinois
500-277523-4	MW-10	Water	11/06/25 10:42	11/06/25 14:40	Illinois
500-277523-5	Duplicate	Water	11/06/25 00:00	11/06/25 14:40	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: 500-277523-1

Client Sample ID: MW-03

Lab Sample ID: 500-277523-1

Date Collected: 11/06/25 13:18

Matrix: Water

Date Received: 11/06/25 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		11/13/25 17:04	11/14/25 16:33	1
Arsenic	1.3		1.0		ug/L		11/13/25 17:04	11/14/25 16:33	1
Barium	130		2.5		ug/L		11/13/25 17:04	11/14/25 16:33	1
Beryllium	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:33	1
Boron	380		50		ug/L		11/13/25 17:04	11/14/25 16:33	1
Cadmium	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:33	1
Calcium	130		0.20		mg/L		11/13/25 17:04	11/14/25 16:33	1
Chromium	<5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:33	1
Cobalt	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:33	1
Lead	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:33	1
Lithium	13		10		ug/L		11/13/25 17:04	11/14/25 16:33	1
Molybdenum	5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:33	1
Selenium	3.3		2.5		ug/L		11/13/25 17:04	11/14/25 16:33	1
Thallium	<2.0		2.0		ug/L		11/13/25 17:04	11/14/25 16:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		11/14/25 09:50	11/17/25 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			11/10/25 05:09	1
Chloride (SM 4500 Cl- E)	300		20		mg/L			11/09/25 11:31	10
Fluoride (SM 4500 F C)	0.45		0.10		mg/L			11/12/25 15:40	1
Sulfate (SM 4500 SO4 E)	200		25		mg/L			11/11/25 09:48	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.07				SU			11/06/25 13:18	1
Field Temperature	58.5				Degrees F			11/06/25 13:18	1
Groundwater Elevation	505.33				ft			11/06/25 13:18	1
Oxidation Reduction Potential	293.7				millivolts			11/06/25 13:18	1
Oxygen, Dissolved	6.06				mg/L			11/06/25 13:18	1
Specific Conductance	1.860				mS/cm			11/06/25 13:18	1
Turbidity	1.85				NTU			11/06/25 13:18	1

Client Sample Results

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

Job ID: 500-277523-1

Client Sample ID: MW-04

Lab Sample ID: 500-277523-2

Date Collected: 11/06/25 12:00

Matrix: Water

Date Received: 11/06/25 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		11/13/25 17:04	11/14/25 16:44	1
Arsenic	1.2		1.0		ug/L		11/13/25 17:04	11/14/25 16:44	1
Barium	90		2.5		ug/L		11/13/25 17:04	11/14/25 16:44	1
Beryllium	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:44	1
Boron	330		50		ug/L		11/13/25 17:04	11/14/25 16:44	1
Cadmium	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:44	1
Calcium	120		0.20		mg/L		11/13/25 17:04	11/14/25 16:44	1
Chromium	<5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:44	1
Cobalt	4.6		1.0		ug/L		11/13/25 17:04	11/14/25 16:44	1
Lead	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:44	1
Lithium	14		10		ug/L		11/13/25 17:04	11/14/25 16:44	1
Molybdenum	6.2		5.0		ug/L		11/13/25 17:04	11/14/25 16:44	1
Selenium	<2.5		2.5		ug/L		11/13/25 17:04	11/14/25 16:44	1
Thallium	<2.0		2.0		ug/L		11/13/25 17:04	11/14/25 16:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		11/14/25 09:50	11/17/25 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	970		10		mg/L			11/10/25 05:12	1
Chloride (SM 4500 Cl- E)	250		20		mg/L			11/09/25 11:32	10
Fluoride (SM 4500 F C)	0.49		0.10		mg/L			11/12/25 15:44	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			11/11/25 09:48	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.01				SU			11/06/25 12:00	1
Field Temperature	59.9				Degrees F			11/06/25 12:00	1
Groundwater Elevation	505.27				ft			11/06/25 12:00	1
Oxidation Reduction Potential	269.2				millivolts			11/06/25 12:00	1
Oxygen, Dissolved	4.45				mg/L			11/06/25 12:00	1
Specific Conductance	1.698				mS/cm			11/06/25 12:00	1
Turbidity	3.22				NTU			11/06/25 12:00	1

Client Sample Results

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

Job ID: 500-277523-1

Client Sample ID: MW-05

Lab Sample ID: 500-277523-3

Date Collected: 11/06/25 09:19

Matrix: Water

Date Received: 11/06/25 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		11/13/25 17:04	11/14/25 16:47	1
Arsenic	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:47	1
Barium	67		2.5		ug/L		11/13/25 17:04	11/14/25 16:47	1
Beryllium	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:47	1
Boron	510		50		ug/L		11/13/25 17:04	11/14/25 16:47	1
Cadmium	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:47	1
Calcium	95		0.20		mg/L		11/13/25 17:04	11/14/25 16:47	1
Chromium	<5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:47	1
Cobalt	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:47	1
Lead	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:47	1
Lithium	15		10		ug/L		11/13/25 17:04	11/14/25 16:47	1
Molybdenum	5.1		5.0		ug/L		11/13/25 17:04	11/14/25 16:47	1
Selenium	<2.5		2.5		ug/L		11/13/25 17:04	11/14/25 16:47	1
Thallium	<2.0		2.0		ug/L		11/13/25 17:04	11/14/25 16:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		11/14/25 09:50	11/17/25 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	890		10		mg/L			11/10/25 05:14	1
Chloride (SM 4500 Cl- E)	200		20		mg/L			11/09/25 11:32	10
Fluoride (SM 4500 F C)	0.37		0.10		mg/L			11/12/25 15:47	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			11/11/25 09:49	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	7.04				SU			11/06/25 09:19	1
Field Temperature	56.7				Degrees F			11/06/25 09:19	1
Groundwater Elevation	504.81				ft			11/06/25 09:19	1
Oxidation Reduction Potential	271.3				millivolts			11/06/25 09:19	1
Oxygen, Dissolved	6.25				mg/L			11/06/25 09:19	1
Specific Conductance	1.420				mS/cm			11/06/25 09:19	1
Turbidity	14.4				NTU			11/06/25 09:19	1

Client Sample Results

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

Job ID: 500-277523-1

Client Sample ID: MW-10

Lab Sample ID: 500-277523-4

Date Collected: 11/06/25 10:42

Matrix: Water

Date Received: 11/06/25 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		11/13/25 17:04	11/14/25 16:49	1
Arsenic	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:49	1
Barium	50		2.5		ug/L		11/13/25 17:04	11/14/25 16:49	1
Beryllium	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:49	1
Boron	390		50		ug/L		11/13/25 17:04	11/14/25 16:49	1
Cadmium	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:49	1
Calcium	120		0.20		mg/L		11/13/25 17:04	11/14/25 16:49	1
Chromium	<5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:49	1
Cobalt	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:49	1
Lead	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:49	1
Lithium	13		10		ug/L		11/13/25 17:04	11/14/25 16:49	1
Molybdenum	6.8		5.0		ug/L		11/13/25 17:04	11/14/25 16:49	1
Selenium	<2.5		2.5		ug/L		11/13/25 17:04	11/14/25 16:49	1
Thallium	<2.0		2.0		ug/L		11/13/25 17:04	11/14/25 16:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.24		0.20		ug/L		11/14/25 09:50	11/17/25 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			11/10/25 05:17	1
Chloride (SM 4500 Cl- E)	220		20		mg/L			11/09/25 11:32	10
Fluoride (SM 4500 F C)	0.45		0.10		mg/L			11/12/25 15:50	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			11/11/25 09:49	5

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.97				SU			11/06/25 10:42	1
Field Temperature	55.4				Degrees F			11/06/25 10:42	1
Groundwater Elevation	505.33				ft			11/06/25 10:42	1
Oxidation Reduction Potential	285.4				millivolts			11/06/25 10:42	1
Oxygen, Dissolved	6.68				mg/L			11/06/25 10:42	1
Specific Conductance	1.497				mS/cm			11/06/25 10:42	1
Turbidity	2.78				NTU			11/06/25 10:42	1

Client Sample Results

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

Job ID: 500-277523-1

Client Sample ID: Duplicate

Lab Sample ID: 500-277523-5

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/06/25 14:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		11/13/25 17:04	11/14/25 16:56	1
Arsenic	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:56	1
Barium	66		2.5		ug/L		11/13/25 17:04	11/14/25 16:56	1
Beryllium	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:56	1
Boron	490		50		ug/L		11/13/25 17:04	11/14/25 16:56	1
Cadmium	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:56	1
Calcium	94		0.20		mg/L		11/13/25 17:04	11/14/25 16:56	1
Chromium	<5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:56	1
Cobalt	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:56	1
Lead	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:56	1
Lithium	15		10		ug/L		11/13/25 17:04	11/14/25 16:56	1
Molybdenum	<5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:56	1
Selenium	<2.5		2.5		ug/L		11/13/25 17:04	11/14/25 16:56	1
Thallium	<2.0		2.0		ug/L		11/13/25 17:04	11/14/25 16:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		11/14/25 09:50	11/17/25 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	890		10		mg/L			11/11/25 05:49	1
Chloride (SM 4500 Cl- E)	200		20		mg/L			11/09/25 11:33	10
Fluoride (SM 4500 F C)	0.37		0.10		mg/L			11/12/25 15:53	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			11/16/25 13:17	5

Definitions/Glossary

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

Job ID: 500-277523-1

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.

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: 500-277523-1

Metals

Prep Batch: 843146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total Recoverable	Water	3005A	
500-277523-2	MW-04	Total Recoverable	Water	3005A	
500-277523-3	MW-05	Total Recoverable	Water	3005A	
500-277523-4	MW-10	Total Recoverable	Water	3005A	
500-277523-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-843146/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-843146/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-277523-1 MS	MW-03	Total Recoverable	Water	3005A	
500-277523-1 MSD	MW-03	Total Recoverable	Water	3005A	
500-277523-1 DU	MW-03	Total Recoverable	Water	3005A	

Prep Batch: 843227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	7470A	
500-277523-2	MW-04	Total/NA	Water	7470A	
500-277523-3	MW-05	Total/NA	Water	7470A	
500-277523-4	MW-10	Total/NA	Water	7470A	
500-277523-5	Duplicate	Total/NA	Water	7470A	
MB 500-843227/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-843227/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-277523-5 MS	Duplicate	Total/NA	Water	7470A	
500-277523-5 MSD	Duplicate	Total/NA	Water	7470A	
500-277523-5 DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 843450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total Recoverable	Water	6020B	843146
500-277523-2	MW-04	Total Recoverable	Water	6020B	843146
500-277523-3	MW-05	Total Recoverable	Water	6020B	843146
500-277523-4	MW-10	Total Recoverable	Water	6020B	843146
500-277523-5	Duplicate	Total Recoverable	Water	6020B	843146
MB 500-843146/1-A	Method Blank	Total Recoverable	Water	6020B	843146
LCS 500-843146/2-A	Lab Control Sample	Total Recoverable	Water	6020B	843146
500-277523-1 MS	MW-03	Total Recoverable	Water	6020B	843146
500-277523-1 MSD	MW-03	Total Recoverable	Water	6020B	843146
500-277523-1 DU	MW-03	Total Recoverable	Water	6020B	843146

Analysis Batch: 843503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	7470A	843227
500-277523-2	MW-04	Total/NA	Water	7470A	843227
500-277523-3	MW-05	Total/NA	Water	7470A	843227
500-277523-4	MW-10	Total/NA	Water	7470A	843227
500-277523-5	Duplicate	Total/NA	Water	7470A	843227
MB 500-843227/12-A	Method Blank	Total/NA	Water	7470A	843227
LCS 500-843227/13-A	Lab Control Sample	Total/NA	Water	7470A	843227
500-277523-5 MS	Duplicate	Total/NA	Water	7470A	843227
500-277523-5 MSD	Duplicate	Total/NA	Water	7470A	843227
500-277523-5 DU	Duplicate	Total/NA	Water	7470A	843227

QC Association Summary

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

Job ID: 500-277523-1

General Chemistry

Analysis Batch: 842275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-277523-2	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-277523-3	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-277523-4	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-277523-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-842275/58	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-842275/59	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 842360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	SM 2540C	
500-277523-2	MW-04	Total/NA	Water	SM 2540C	
500-277523-3	MW-05	Total/NA	Water	SM 2540C	
500-277523-4	MW-10	Total/NA	Water	SM 2540C	
MB 500-842360/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-842360/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 842502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-842502/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-842502/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 842578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-277523-2	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-277523-3	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-277523-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-842578/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-842578/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 842913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	SM 4500 F C	
500-277523-2	MW-04	Total/NA	Water	SM 4500 F C	
500-277523-3	MW-05	Total/NA	Water	SM 4500 F C	
500-277523-4	MW-10	Total/NA	Water	SM 4500 F C	
500-277523-5	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-842913/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-842913/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 843402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-843402/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-843402/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

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

Job ID: 500-277523-1

Field Service / Mobile Lab

Analysis Batch: 844410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	Field Sampling	
500-277523-2	MW-04	Total/NA	Water	Field Sampling	
500-277523-3	MW-05	Total/NA	Water	Field Sampling	
500-277523-4	MW-10	Total/NA	Water	Field Sampling	

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

QC Sample Results

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

Job ID: 500-277523-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-843146/1-A
Matrix: Water
Analysis Batch: 843450

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 843146

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<3.0		3.0		ug/L		11/13/25 17:04	11/14/25 16:29	1
Arsenic	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:29	1
Barium	<2.5		2.5		ug/L		11/13/25 17:04	11/14/25 16:29	1
Beryllium	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:29	1
Boron	<50		50		ug/L		11/13/25 17:04	11/14/25 16:29	1
Cadmium	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:29	1
Calcium	<0.20		0.20		mg/L		11/13/25 17:04	11/14/25 16:29	1
Chromium	<5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:29	1
Cobalt	<1.0		1.0		ug/L		11/13/25 17:04	11/14/25 16:29	1
Lead	<0.50		0.50		ug/L		11/13/25 17:04	11/14/25 16:29	1
Lithium	<10		10		ug/L		11/13/25 17:04	11/14/25 16:29	1
Molybdenum	<5.0		5.0		ug/L		11/13/25 17:04	11/14/25 16:29	1
Selenium	<2.5		2.5		ug/L		11/13/25 17:04	11/14/25 16:29	1
Thallium	<2.0		2.0		ug/L		11/13/25 17:04	11/14/25 16:29	1

Lab Sample ID: LCS 500-843146/2-A
Matrix: Water
Analysis Batch: 843450

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 843146

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	500	509		ug/L		102	80 - 120
Arsenic	100	98.2		ug/L		98	80 - 120
Barium	500	489		ug/L		98	80 - 120
Beryllium	50.0	48.3		ug/L		97	80 - 120
Boron	1000	970		ug/L		97	80 - 120
Cadmium	50.0	49.3		ug/L		99	80 - 120
Calcium	10.0	8.82		mg/L		88	80 - 120
Chromium	200	189		ug/L		94	80 - 120
Cobalt	500	496		ug/L		99	80 - 120
Lead	100	96.0		ug/L		96	80 - 120
Lithium	100	99.8		ug/L		100	80 - 120
Molybdenum	1000	1020		ug/L		102	80 - 120
Selenium	100	103		ug/L		103	80 - 120
Thallium	100	97.4		ug/L		97	80 - 120

Lab Sample ID: 500-277523-1 MS
Matrix: Water
Analysis Batch: 843450

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 843146

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Antimony	<3.0		500	545		ug/L		109	75 - 125
Arsenic	1.3		100	103		ug/L		101	75 - 125
Barium	130		500	641		ug/L		101	75 - 125
Beryllium	<1.0		50.0	49.2		ug/L		98	75 - 125
Boron	380		1000	1400		ug/L		102	75 - 125
Cadmium	<0.50		50.0	51.3		ug/L		103	75 - 125
Calcium	130		10.0	141	4	mg/L		98	75 - 125
Chromium	<5.0		200	196		ug/L		97	75 - 125
Cobalt	<1.0		500	505		ug/L		101	75 - 125

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QC Sample Results

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

Job ID: 500-277523-1

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

Lab Sample ID: 500-277523-1 MS
Matrix: Water
Analysis Batch: 843450

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 843146

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Lead	<0.50		100	101		ug/L		101	75 - 125	
Lithium	13		100	114		ug/L		101	75 - 125	
Molybdenum	5.0		1000	1100		ug/L		109	75 - 125	
Selenium	3.3		100	108		ug/L		104	75 - 125	
Thallium	<2.0		100	103		ug/L		103	75 - 125	

Lab Sample ID: 500-277523-1 MSD
Matrix: Water
Analysis Batch: 843450

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 843146

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	<3.0		500	571		ug/L		114	75 - 125	5	20
Arsenic	1.3		100	104		ug/L		103	75 - 125	2	20
Barium	130		500	667		ug/L		107	75 - 125	4	20
Beryllium	<1.0		50.0	51.5		ug/L		103	75 - 125	5	20
Boron	380		1000	1450		ug/L		107	75 - 125	4	20
Cadmium	<0.50		50.0	53.5		ug/L		107	75 - 125	4	20
Calcium	130		10.0	149	4	mg/L		175	75 - 125	5	20
Chromium	<5.0		200	202		ug/L		100	75 - 125	3	20
Cobalt	<1.0		500	521		ug/L		104	75 - 125	3	20
Lead	<0.50		100	104		ug/L		104	75 - 125	4	20
Lithium	13		100	118		ug/L		105	75 - 125	4	20
Molybdenum	5.0		1000	1130		ug/L		113	75 - 125	3	20
Selenium	3.3		100	107		ug/L		104	75 - 125	0	20
Thallium	<2.0		100	104		ug/L		104	75 - 125	1	20

Lab Sample ID: 500-277523-1 DU
Matrix: Water
Analysis Batch: 843450

Client Sample ID: MW-03
Prep Type: Total Recoverable
Prep Batch: 843146

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<3.0		<3.0		ug/L		NC	20
Arsenic	1.3		1.17		ug/L		10	20
Barium	130		135		ug/L		0.2	20
Beryllium	<1.0		<1.0		ug/L		NC	20
Boron	380		368		ug/L		3	20
Cadmium	<0.50		<0.50		ug/L		NC	20
Calcium	130		131		mg/L		0.4	20
Chromium	<5.0		<5.0		ug/L		NC	20
Cobalt	<1.0		<1.0		ug/L		NC	20
Lead	<0.50		<0.50		ug/L		NC	20
Lithium	13		13.1		ug/L		1	20
Molybdenum	5.0		<5.0		ug/L		NC	20
Selenium	3.3		3.28		ug/L		0	20
Thallium	<2.0		<2.0		ug/L		NC	20

QC Sample Results

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

Job ID: 500-277523-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-843227/12-A
Matrix: Water
Analysis Batch: 843503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 843227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		11/14/25 09:50	11/17/25 08:37	1

Lab Sample ID: LCS 500-843227/13-A
Matrix: Water
Analysis Batch: 843503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 843227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.00	2.10		ug/L		105	80 - 120

Lab Sample ID: 500-277523-5 MS
Matrix: Water
Analysis Batch: 843503

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 843227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.20		1.00	1.04		ug/L		89	75 - 125

Lab Sample ID: 500-277523-5 MSD
Matrix: Water
Analysis Batch: 843503

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 843227

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.20		1.00	1.03		ug/L		87	75 - 125	1	20

Lab Sample ID: 500-277523-5 DU
Matrix: Water
Analysis Batch: 843503

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 843227

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.20			<0.20		ug/L				NC	20

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

Lab Sample ID: MB 500-842360/1
Matrix: Water
Analysis Batch: 842360

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/10/25 04:18	1

Lab Sample ID: LCS 500-842360/2
Matrix: Water
Analysis Batch: 842360

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

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

QC Sample Results

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

Job ID: 500-277523-1

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

Lab Sample ID: MB 500-842502/1
 Matrix: Water
 Analysis Batch: 842502

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/11/25 05:18	1

Lab Sample ID: LCS 500-842502/2
 Matrix: Water
 Analysis Batch: 842502

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	272		mg/L		109	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-842275/58
 Matrix: Water
 Analysis Batch: 842275

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			11/09/25 11:15	1

Lab Sample ID: LCS 500-842275/59
 Matrix: Water
 Analysis Batch: 842275

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	20.5		mg/L		102	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-842913/3
 Matrix: Water
 Analysis Batch: 842913

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/12/25 14:53	1

Lab Sample ID: LCS 500-842913/4
 Matrix: Water
 Analysis Batch: 842913

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	9.79		mg/L		98	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-842578/16
 Matrix: Water
 Analysis Batch: 842578

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			11/11/25 09:22	1

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QC Sample Results

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

Job ID: 500-277523-1

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

Lab Sample ID: LCS 500-842578/17
Matrix: Water
Analysis Batch: 842578

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.3		mg/L		107	88 - 123

Lab Sample ID: MB 500-843402/16
Matrix: Water
Analysis Batch: 843402

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			11/16/25 13:02	1

Lab Sample ID: LCS 500-843402/17
Matrix: Water
Analysis Batch: 843402

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.3		mg/L		102	88 - 123

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-277523-1

Login Number: 277523

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1,4.7
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 500-277523-1

Client Sample ID: MW-03

Lab Sample ID: 500-277523-1

Date Collected: 11/06/25 13:18

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			843146	MS	EET CHI	11/13/25 17:04 - 11/13/25 23:04 ¹
Total Recoverable	Analysis	6020B		1	843450	RN	EET CHI	11/14/25 16:33
Total/NA	Prep	7470A			843227	MJG	EET CHI	11/14/25 09:50 - 11/14/25 11:50 ¹
Total/NA	Analysis	7470A		1	843503	MJG	EET CHI	11/17/25 08:41
Total/NA	Analysis	SM 2540C		1	842360	CLB	EET CHI	11/10/25 05:09
Total/NA	Analysis	SM 4500 Cl- E		10	842275	TR	EET CHI	11/09/25 11:31
Total/NA	Analysis	SM 4500 F C		1	842913	AC	EET CHI	11/12/25 15:40
Total/NA	Analysis	SM 4500 SO4 E		5	842578	TR	EET CHI	11/11/25 09:48
Total/NA	Analysis	Field Sampling		1	844410	DN	EET CHI	11/06/25 13:18

Client Sample ID: MW-04

Lab Sample ID: 500-277523-2

Date Collected: 11/06/25 12:00

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			843146	MS	EET CHI	11/13/25 17:04 - 11/13/25 23:04 ¹
Total Recoverable	Analysis	6020B		1	843450	RN	EET CHI	11/14/25 16:44
Total/NA	Prep	7470A			843227	MJG	EET CHI	11/14/25 09:50 - 11/14/25 11:50 ¹
Total/NA	Analysis	7470A		1	843503	MJG	EET CHI	11/17/25 08:43
Total/NA	Analysis	SM 2540C		1	842360	CLB	EET CHI	11/10/25 05:12
Total/NA	Analysis	SM 4500 Cl- E		10	842275	TR	EET CHI	11/09/25 11:32
Total/NA	Analysis	SM 4500 F C		1	842913	AC	EET CHI	11/12/25 15:44
Total/NA	Analysis	SM 4500 SO4 E		5	842578	TR	EET CHI	11/11/25 09:48
Total/NA	Analysis	Field Sampling		1	844410	DN	EET CHI	11/06/25 12:00

Client Sample ID: MW-05

Lab Sample ID: 500-277523-3

Date Collected: 11/06/25 09:19

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			843146	MS	EET CHI	11/13/25 17:04 - 11/13/25 23:04 ¹
Total Recoverable	Analysis	6020B		1	843450	RN	EET CHI	11/14/25 16:47
Total/NA	Prep	7470A			843227	MJG	EET CHI	11/14/25 09:50 - 11/14/25 11:50 ¹
Total/NA	Analysis	7470A		1	843503	MJG	EET CHI	11/17/25 08:45
Total/NA	Analysis	SM 2540C		1	842360	CLB	EET CHI	11/10/25 05:14
Total/NA	Analysis	SM 4500 Cl- E		10	842275	TR	EET CHI	11/09/25 11:32
Total/NA	Analysis	SM 4500 F C		1	842913	AC	EET CHI	11/12/25 15:47
Total/NA	Analysis	SM 4500 SO4 E		5	842578	TR	EET CHI	11/11/25 09:49
Total/NA	Analysis	Field Sampling		1	844410	DN	EET CHI	11/06/25 09:19

Lab Chronicle

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

Job ID: 500-277523-1

Client Sample ID: MW-10

Lab Sample ID: 500-277523-4

Date Collected: 11/06/25 10:42

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			843146	MS	EET CHI	11/13/25 17:04 - 11/13/25 23:04 ¹
Total Recoverable	Analysis	6020B		1	843450	RN	EET CHI	11/14/25 16:49
Total/NA	Prep	7470A			843227	MJG	EET CHI	11/14/25 09:50 - 11/14/25 11:50 ¹
Total/NA	Analysis	7470A		1	843503	MJG	EET CHI	11/17/25 08:46
Total/NA	Analysis	SM 2540C		1	842360	CLB	EET CHI	11/10/25 05:17
Total/NA	Analysis	SM 4500 Cl- E		10	842275	TR	EET CHI	11/09/25 11:32
Total/NA	Analysis	SM 4500 F C		1	842913	AC	EET CHI	11/12/25 15:50
Total/NA	Analysis	SM 4500 SO4 E		5	842578	TR	EET CHI	11/11/25 09:49
Total/NA	Analysis	Field Sampling		1	844410	DN	EET CHI	11/06/25 10:42

Client Sample ID: Duplicate

Lab Sample ID: 500-277523-5

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			843146	MS	EET CHI	11/13/25 17:04 - 11/13/25 23:04 ¹
Total Recoverable	Analysis	6020B		1	843450	RN	EET CHI	11/14/25 16:56
Total/NA	Prep	7470A			843227	MJG	EET CHI	11/14/25 09:50 - 11/14/25 11:50 ¹
Total/NA	Analysis	7470A		1	843503	MJG	EET CHI	11/17/25 08:48
Total/NA	Analysis	SM 2540C		1	842502	CLB	EET CHI	11/11/25 05:49
Total/NA	Analysis	SM 4500 Cl- E		10	842275	TR	EET CHI	11/09/25 11:33
Total/NA	Analysis	SM 4500 F C		1	842913	AC	EET CHI	11/12/25 15:53
Total/NA	Analysis	SM 4500 SO4 E		5	843402	TR	EET CHI	11/16/25 13:17

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, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Parameter Well	MW-03	MW-04	MW-05	MW-10	
Field pH		7.07	7.01	7.04	6.97
Field Temp (deg C)		14.7	15.5	13.7	13.0
Field Specific Conductance (mS/cm)		1.860	1.698	1.420	1.497
Dissolved Oxygen (mg/L)		6.06	4.45	6.25	6.68
Field Turbidity NTU		1.85	3.22	14.4	2.78
ORP (mV)		293.7	269.2	271.3	285.4
Groundwater Elevation (ft)		505.33	505.27	504.81	505.33
Description	Clear	Clear	Clear	Clear	
Sampling Method	Dedicated Bladder pump	Dedicated bladder pump	Dedicated bladder pump	Dedicated bladder pump	



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

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

Generated 12/8/2025 12:53:06 PM

JOB DESCRIPTION

Joliet #29 CCR (RAD)

JOB NUMBER

500-277523-2

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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12/8/2025 12:53:06 PM

Authorized for release by
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Case Narrative

Client: Midwest Generation EME LLC
Project: Joliet #29 CCR (RAD)

Job ID: 500-277523-2

Job ID: 500-277523-2

Eurofins Chicago

Job Narrative 500-277523-2

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 11/6/2025 2:40 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 4.1°C and 4.7°C.

Gas Flow Proportional Counter

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

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 (RAD)

Job ID: 500-277523-2

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 (RAD)

Job ID: 500-277523-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-277523-1	MW-03	Water	11/06/25 13:18	11/06/25 14:40	Illinois
500-277523-2	MW-04	Water	11/06/25 12:00	11/06/25 14:40	Illinois
500-277523-3	MW-05	Water	11/06/25 09:19	11/06/25 14:40	Illinois
500-277523-4	MW-10	Water	11/06/25 10:42	11/06/25 14:40	Illinois
500-277523-5	Duplicate	Water	11/06/25 00:00	11/06/25 14:40	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 (RAD)

Job ID: 500-277523-2

Client Sample ID: MW-03

Lab Sample ID: 500-277523-1

Date Collected: 11/06/25 13:18

Matrix: Water

Date Received: 11/06/25 14:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102	U	0.123	0.124	1.00	0.201	pCi/L	11/10/25 08:24	12/04/25 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					11/10/25 08:24	12/04/25 09:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.642	U	0.448	0.452	1.00	0.679	pCi/L	11/10/25 08:30	12/03/25 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		30 - 110					11/10/25 08:30	12/03/25 12:17	1
Y Carrier	80.4		30 - 110					11/10/25 08:30	12/03/25 12:17	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	0.744		0.465	0.469	5.00	0.679	pCi/L		12/08/25 12:40	1

Client Sample Results

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

Job ID: 500-277523-2

Client Sample ID: MW-04

Lab Sample ID: 500-277523-2

Date Collected: 11/06/25 12:00

Matrix: Water

Date Received: 11/06/25 14:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.168	U	0.156	0.156	1.00	0.237	pCi/L	11/10/25 08:24	12/04/25 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					11/10/25 08:24	12/04/25 09:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.511	U	0.498	0.500	1.00	0.803	pCi/L	11/10/25 08:30	12/03/25 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		30 - 110					11/10/25 08:30	12/03/25 12:17	1
Y Carrier	78.5		30 - 110					11/10/25 08:30	12/03/25 12:17	1

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

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Combined Radium 226 + 228	0.679	U	0.522	0.524	5.00	0.803	pCi/L		12/08/25 12:40	1

Client Sample Results

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

Job ID: 500-277523-2

Client Sample ID: MW-05

Lab Sample ID: 500-277523-3

Date Collected: 11/06/25 09:19

Matrix: Water

Date Received: 11/06/25 14:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0966	U	0.140	0.141	1.00	0.239	pCi/L	11/10/25 08:24	12/04/25 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					11/10/25 08:24	12/04/25 09:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.405	U	0.443	0.445	1.00	0.723	pCi/L	11/10/25 08:30	12/03/25 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					11/10/25 08:30	12/03/25 12:16	1
Y Carrier	78.5		30 - 110					11/10/25 08:30	12/03/25 12:16	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	0.501	U	0.465	0.467	5.00	0.723	pCi/L		12/08/25 12:40	1

Client Sample Results

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

Job ID: 500-277523-2

Client Sample ID: MW-10

Lab Sample ID: 500-277523-4

Date Collected: 11/06/25 10:42

Matrix: Water

Date Received: 11/06/25 14:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.195	U	0.152	0.153	1.00	0.214	pCi/L	11/10/25 08:24	12/04/25 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					11/10/25 08:24	12/04/25 09:51	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	0.229	U	0.418	0.419	1.00	0.719	pCi/L	11/10/25 08:30	12/03/25 12:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					11/10/25 08:30	12/03/25 12:17	1
Y Carrier	78.5		30 - 110					11/10/25 08:30	12/03/25 12:17	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	0.424	U	0.445	0.446	5.00	0.719	pCi/L		12/08/25 12:40	1

Client Sample Results

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

Job ID: 500-277523-2

Client Sample ID: Duplicate

Lab Sample ID: 500-277523-5

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/06/25 14:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.154	U	0.152	0.153	1.00	0.236	pCi/L	11/10/25 08:24	12/04/25 09:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		30 - 110					11/10/25 08:24	12/04/25 09:51	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	0.345	U	0.406	0.407	1.00	0.668	pCi/L	11/10/25 08:30	12/03/25 12:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		30 - 110					11/10/25 08:30	12/03/25 12:16	1
Y Carrier	76.6		30 - 110					11/10/25 08:30	12/03/25 12:16	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	0.499	U	0.434	0.435	5.00	0.668	pCi/L		12/08/25 12:40	1

Definitions/Glossary

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

Job ID: 500-277523-2

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 (RAD)

Job ID: 500-277523-2

Rad

Prep Batch: 744606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	PrecSep-21	
500-277523-2	MW-04	Total/NA	Water	PrecSep-21	
500-277523-3	MW-05	Total/NA	Water	PrecSep-21	
500-277523-4	MW-10	Total/NA	Water	PrecSep-21	
500-277523-5	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-744606/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-744606/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-277523-1 DU	MW-03	Total/NA	Water	PrecSep-21	

Prep Batch: 744607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-277523-1	MW-03	Total/NA	Water	PrecSep_0	
500-277523-2	MW-04	Total/NA	Water	PrecSep_0	
500-277523-3	MW-05	Total/NA	Water	PrecSep_0	
500-277523-4	MW-10	Total/NA	Water	PrecSep_0	
500-277523-5	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-744607/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-744607/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-277523-1 DU	MW-03	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-277523-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-744606/1-A
Matrix: Water
Analysis Batch: 747899

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 744606

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.08256	U	0.145	0.146	1.00	0.256	pCi/L	11/10/25 08:24	12/04/25 09:50	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	86.1		30 - 110		11/10/25 08:24	12/04/25 09:50	1			

Lab Sample ID: LCS 160-744606/2-A
Matrix: Water
Analysis Batch: 747899

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744606

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.57	9.400		1.17	1.00	0.229	pCi/L	98	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	88.0		30 - 110						

Lab Sample ID: 500-277523-1 DU
Matrix: Water
Analysis Batch: 747899

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 744606

Analyte	Sample		DU		Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	DU Qual	Uncert. (2σ+/-)					
Radium-226	0.102	U	0.1862	U	0.165	1.00	0.248	pCi/L	0.29	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	88.6		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-744607/1-A
Matrix: Water
Analysis Batch: 747720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 744607

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.08753	U	0.357	0.357	1.00	0.638	pCi/L	11/10/25 08:30	12/03/25 12:19	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	86.1		30 - 110		11/10/25 08:30	12/03/25 12:19	1			
Y Carrier	84.5		30 - 110		11/10/25 08:30	12/03/25 12:19	1			

QC Sample Results

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

Job ID: 500-277523-2

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

Lab Sample ID: LCS 160-744607/2-A
Matrix: Water
Analysis Batch: 747720

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744607

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	7.88	9.590		1.34	1.00	0.595	pCi/L	122	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.0		30 - 110							
Y Carrier	82.6		30 - 110							

Lab Sample ID: 500-277523-1 DU
Matrix: Water
Analysis Batch: 747765

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 744607

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.642	U	0.9347		0.502	1.00	0.707	pCi/L	0.31	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	88.6		30 - 110							
Y Carrier	78.9		30 - 110							

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-277523-2

Login Number: 277523

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1,4.7
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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: 500-277523-2

Login Number: 277523

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 11/07/25 12:16 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?	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 (RAD)

Job ID: 500-277523-2

Client Sample ID: MW-03

Lab Sample ID: 500-277523-1

Date Collected: 11/06/25 13:18

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			744606	VLQ	EET SL	11/10/25 08:24
Total/NA	Analysis	903.0		1	747899	SWS	EET SL	12/04/25 09:50
Total/NA	Prep	PrecSep_0			744607	VLQ	EET SL	11/10/25 08:30
Total/NA	Analysis	904.0		1	747765	FLC	EET SL	12/03/25 12:17
Total/NA	Analysis	Ra226_Ra228		1	748417	CAH	EET SL	12/08/25 12:40

Client Sample ID: MW-04

Lab Sample ID: 500-277523-2

Date Collected: 11/06/25 12:00

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			744606	VLQ	EET SL	11/10/25 08:24
Total/NA	Analysis	903.0		1	747899	SWS	EET SL	12/04/25 09:51
Total/NA	Prep	PrecSep_0			744607	VLQ	EET SL	11/10/25 08:30
Total/NA	Analysis	904.0		1	747765	FLC	EET SL	12/03/25 12:17
Total/NA	Analysis	Ra226_Ra228		1	748417	CAH	EET SL	12/08/25 12:40

Client Sample ID: MW-05

Lab Sample ID: 500-277523-3

Date Collected: 11/06/25 09:19

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			744606	VLQ	EET SL	11/10/25 08:24
Total/NA	Analysis	903.0		1	747899	SWS	EET SL	12/04/25 09:51
Total/NA	Prep	PrecSep_0			744607	VLQ	EET SL	11/10/25 08:30
Total/NA	Analysis	904.0		1	747765	FLC	EET SL	12/03/25 12:16
Total/NA	Analysis	Ra226_Ra228		1	748417	CAH	EET SL	12/08/25 12:40

Client Sample ID: MW-10

Lab Sample ID: 500-277523-4

Date Collected: 11/06/25 10:42

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			744606	VLQ	EET SL	11/10/25 08:24
Total/NA	Analysis	903.0		1	747899	SWS	EET SL	12/04/25 09:51
Total/NA	Prep	PrecSep_0			744607	VLQ	EET SL	11/10/25 08:30
Total/NA	Analysis	904.0		1	747765	FLC	EET SL	12/03/25 12:17
Total/NA	Analysis	Ra226_Ra228		1	748417	CAH	EET SL	12/08/25 12:40

Lab Chronicle

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

Job ID: 500-277523-2

Client Sample ID: Duplicate

Lab Sample ID: 500-277523-5

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/06/25 14:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			744606	VLQ	EET SL	11/10/25 08:24
Total/NA	Analysis	903.0		1	747899	SWS	EET SL	12/04/25 09:51
Total/NA	Prep	PrecSep_0			744607	VLQ	EET SL	11/10/25 08:30
Total/NA	Analysis	904.0		1	747765	FLC	EET SL	12/03/25 12:16
Total/NA	Analysis	Ra226_Ra228		1	748417	CAH	EET SL	12/08/25 12:40

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 (RAD)

Job ID: 500-277523-2

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)	
500-277523-1	MW-03	89.4	
500-277523-1 DU	MW-03	88.6	
500-277523-2	MW-04	89.1	
500-277523-3	MW-05	86.6	
500-277523-4	MW-10	88.0	
500-277523-5	Duplicate	88.9	
LCS 160-744606/2-A	Lab Control Sample	88.0	
MB 160-744606/1-A	Method Blank	86.1	
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)
500-277523-1	MW-03	89.4	80.4
500-277523-1 DU	MW-03	88.6	78.9
500-277523-2	MW-04	89.1	78.5
500-277523-3	MW-05	86.6	78.5
500-277523-4	MW-10	88.0	78.5
500-277523-5	Duplicate	88.9	76.6
LCS 160-744607/2-A	Lab Control Sample	88.0	82.6
MB 160-744607/1-A	Method Blank	86.1	84.5
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	11-6-25
Sample Name	MW-03	Start Time	13:03	
Condition of Well	Good			
Water Level	33.54	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	Colorless Odorless	
Volume Removed	2.0 QTB	W L at Sample Time	33.54	
Method of Sample	Low-Flow	Sample Characteristics	Appears Clear CCA Filtered	
Sample Analysis	CCA + CCR	Sample Time	13:18	
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)
13:06	33.54	7.56	15.9	1.794	8.81	214.4	1.32
13:09	33.54	7.30	14.9	1.828	7.38	249.8	1.75
13:12	33.54	7.15	14.8	1.854	6.49	273.5	1.96
13:15	33.54	7.08	14.7	1.858	6.11	292.4	1.70
13:18	33.54	7.07	14.7	1.860	6.06	293.7	1.85
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	11-6-25
Sample Name	MW-04	Start Time		
Condition of Well	Good			
Water Level	33.83	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	1.75 Q ₁₀	W L at Sample Time		
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR CCA FILTERED.	
Sample Analysis	CCA + CCR	Sample Time	12:00	
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)
11:48	33.84	7.14	14.9	1.701	5.29	209.3	2.42
11:51	33.84	7.08	15.1	1.696	4.79	231.6	2.82
11:54	33.83	7.03	15.4	1.698	4.45	257.8	3.04
11:57	33.83	7.02	15.5	1.699	4.45	266.9	3.08
12:00	33.83	7.01	15.5	1.698	4.45	269.2	3.22
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	11-6-25
Sample Name	MW-5	Start Time	09:04	
Condition of Well	GOOD			
Water Level	34.56	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS TRACE ODORLESS TUBS	
Volume Removed	1.75 QTS.	W L at Sample Time	34.55	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR CCA FILTERED.	
Sample Analysis	CCA + CCR + CCR DUP.	Sample Time	09:19	
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	34.55	7.21	14.2	1.504	7.36	205.9	14.60
09:10	34.55	7.15	13.8	1.470	6.95	226.7	14.82
09:13	34.55	7.06	13.7	1.436	6.40	256.1	14.39
09:16	34.55	7.04	13.7	1.421	6.25	269.6	14.54
09:19	34.55	7.04	13.7	1.420	6.25	271.3	14.40
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	11-6-25
Sample Name	MW-10	Start Time	10:27	
Condition of Well	GOOD			
Water Level	34.75	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	1.75 QTS.	W L at Sample Time	34.75	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR CCA FILTERED.	
Sample Analysis	CCA + CCR	Sample Time	10:42	
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)
10:30	34.74	7.15	13.9	1.581	8.40	230.9	3.49
10:33	34.75	7.04	13.4	1.540	7.72	254.7	5.86
10:36	34.75	7.01	13.2	1.519	7.37	270.4	3.41
10:39	34.74	6.98	12.9	1.500	6.72	283.3	2.55
10:42	34.75	6.97	13.0	1.497	6.68	285.4	2.78.
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

