

DATA SUMMARY POSTING

Station: Midwest Generation Joliet #29 Generating Station

Regulated Unit(s): Pond 2 (IEPA ID No. W1970450047-02)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 1st 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. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

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

Table 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	
MW-10 up-gradient	10/28/2015	0.47	100	200	0.41	7.04	84	790	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0060	0.2981	< 0.0025	< 0.002	
	2/10/2016	0.41	100	210	0.44	7.17	120	820	< 0.003	0.001	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0067	< 0.438	< 0.0025	< 0.002	
	5/12/2016	0.29	100	300	0.42	7.02	110	920	< 0.003	< 0.001	0.046	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0051	< 0.414	< 0.0025	< 0.002	
	8/31/2016	0.36	89	170	0.46	6.95	100	760	< 0.003	< 0.001	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.010	< 0.0002	0.0077	< 0.394	< 0.0025	< 0.002	
	11/2/2016	0.48	100	130	0.45	6.99	95	720	< 0.003	0.0018	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	0.0014	0.011	< 0.0002	0.0061	0.626	< 0.0025	< 0.002	
	2/6/2017	0.44	120	190	0.36	6.99	88	820	< 0.003	0.0011	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.00086	0.014	< 0.0002	0.0056	< 0.389	< 0.0025	< 0.002	
	4/26/2017	0.35	120	200	0.35	7.27	80	760	< 0.003	0.0015	0.046	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.001	< 0.0002	0.0063	0.623	< 0.0025	< 0.002	
	6/14/2017	0.29	91	160	0.43	7.48	91	75	690	< 0.003	0.001	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0072	< 0.356	< 0.0025	< 0.002
	8/2/2017	0.45	97	170	0.38	7.23	110	750	< 0.003	0.0011	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0079	0.429	< 0.0025	< 0.002	
	10/18/2017	0.61	120	140	0.41	7.11	130	820	< 0.003	0.0012	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	0.00059	0.013	< 0.0002	0.0066	< 0.422	< 0.0025	< 0.002	
	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
	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
	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
	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
	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
	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
	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
	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
	10/22/2020	0.34	110	230	0.34	7.11	93	840	< 0.003	0.001	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0057	NA	< 0.0025	< 0.002	
	5/18/2021	0.33	140	350	0.39	7.14	210	1200	< 0.003	0.0014	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.0055	< 0.4800	< 0.0025	< 0.002	
	6/29/2021 R	NA	160	420	NA	7.32	NA	1300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/30/2021	0.28	120	330	0.37	7.56	170	990	< 0.003	0.0012	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0065	0.51	< 0.0025	< 0.002	
	11/16/2021	0.39	120	260	0.38	7.01	150	1000	< 0.003	0.0012	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0066	0.692	< 0.0025	< 0.002	
	3/3/2022	0.47	120	280	0.41	7.05	190	1000	< 0.003	0.0014	0.055	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0066	< 0.4	< 0.0025	< 0.002	
	5/26/2022	0.39	120	280	0.41	6.90	160	1000	< 0.003	0.0013	0.046	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0064	< 0.593	< 0.0025	< 0.002	
	8/31/2022	0.33	110	240	0.41	6.58	160	970	< 0.003	0.0012	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0057	0.534	< 0.0025	< 0.002	
	11/9/2022	0.32	110	240	0.57	7.00	150	880	< 0.003	0.0014	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.01	< 0.0002	0.0055	0.728	< 0.0025	< 0.002	
	12/20/2022 R	NS	NS	NS	0.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/28/2023	0.36	130	330	0.38	7.06	170	1200	< 0.003	0.0012	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0058	< 0.787	< 0.0025	< 0.002	
	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	< 0.0020	0.0068	< 0.487	< 0.0025	< 0.0020	
	7/20/2023	0.33	130	250	0.36	6.95	160	980	< 0.0030	< 0.0010	0.049	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.0020	0.0063	0.623	< 0.0025	< 0.0020	
	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	< 0.0020	0.0064	0.739	< 0.0025	< 0.0020	
	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	< 0.00050	0.014	< 0.0020	0.0067	0.720	< 0.0025	< 0.0020	
	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	< 0.0020	0.0067	< 0.633	< 0.0025	< 0.0020	
	7/30/2024	0.44	120	170	0.38	7.58	120	880	< 0.0030	< 0.0010	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.0020	0.0071	0.455	< 0.0025	< 0.0020	
	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	< 0.0020	0.0063	< 0.337	< 0.0025	< 0.0020	
1/29/2025	0.50	140	250	0.40	7.13	150	1100	< 0.0030	0.0011	0.0011	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00089	0.015	< 0.0020	0.0066	< 0.0345	< 0.0025	< 0.0020		
MW-03 down-gradient	10/28/2015	0.34	110	230	0.41	7.11	110	960	< 0.003	0.0015	0.100	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	< 0.0050	0.41	< 0.0025	< 0.002	
	2/10/2016	0.49	100	220	0.44	7.31	130	790	< 0.003	0.0017	0.100	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0060	< 1.68	< 0.0045	< 0.002	
	5/10/2016	0.48	95	240	0.44	7.07	130	800	< 0.003	0.0011	0.095	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0062	< 0.326	0.0030	< 0.002	
	8/31/2016	0.49	100	250	0.45	7.18	120	920	< 0.003	0.0013	0.095	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0086	< 0.373	0.0051	< 0.002	
	11/2/2016	0.34	87	94	0.34	7.45	94	780	< 0.003	0.0019	0.082	< 0.001	< 0.0005	0.0051	< 0.001	< 0.0005	< 0.010	< 0.0002	0.0059	0.965	< 0.0032	< 0.002	
	2/6/2017	0.40	120	140	0.39	7.40	77	720	< 0.003	0.0019	0.093	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0066	< 0.358	< 0.0025	< 0.002	
	4/26/2017	0.54	100	210	0.36	7.03	120	820	< 0.003	0.0017	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.010	< 0.0002	0.0088	< 0.411	0.0052	< 0.002	
	6/14/2017	0.45	88	190	0.44	7.43	75	760	< 0.003	0.0014	0.09	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0072	< 0.358	0.0037	< 0.002	
	8/2/2017	0.41	99	200	0.40	7.34	110	850	< 0.003	0.0022	0.10	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0065	0.414	0.005	< 0.002	
	10/18/2017	0.35	93	160	0.42	7.11	100	850	< 0.003	0.0015	0.088	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0055	< 0.417	0.0026	< 0.002	
	4/24/2018	0.52	100	220	0.42	7.2	150	930	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	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/17/2018	0.25	100	250	0.4	7.04	110	870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/7/2019	0.43	120	280	0.4	7.27	140	880	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/3/2019 R	NA	NA	NA	NA	NA	NA	65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/2019	0.34	100	150	0.4	7.32	65	660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/20/2020	0.38	100	230	0.42	7.56	78	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/11/2020 R	0.32	110	180	0.4	7.23	90																

Notes: All units are in mg/L except pH is in standard units and radium is in pCi/L.

DNYA - Data not yet available.

F1 - MS and/or MSD Recovery outside of limits

F2- MS/MSD RPD exceeds control limits.

NA = Not analyzed. No confirmation resample required.

^+ = Continuing calibration verification is outside acceptance limits, high biased.

^{††} = Continuing calibration verification is outside acceptance limits, high biased.

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
MW-05 down-gradient	10/28/2015	0.64	100	160	0.39	7.12	120	790	< 0.003	0.0011	0.057	^< 0.001	< 0.0005	< 0.005	0.0013	< 0.0005	0.018	< 0.0002	0.0088	0.6231	0.0031	< 0.002
	2/10/2016	0.46	110	220	0.39	7.25	120	790	< 0.003	0.0028	0.071	< 0.001	< 0.0005	0.0062	0.0013	0.0022	< 0.02	< 0.0002	F1 0.0053	1.09	< 0.0025	< 0.002
	5/10/2016	0.8	150	220	0.46	6.88	290	950	< 0.003	0.0023	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	0.0022	0.014	< 0.0002	0.008	< 0.40	0.019	< 0.002
	8/31/2016	1.0	140	99	0.56	6.81	260	820	< 0.003	< 0.001	0.07	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.012	< 0.42	0.02	< 0.002
	11/2/2016	0.41	98	130	0.37	7.26	100	700	< 0.003	0.0022	0.056	< 0.001	< 0.0005	0.0051	< 0.001	0.0017	0.015	< 0.0002	0.0061	0.438	< 0.0025	< 0.002
	2/6/2017	0.48	150	180	0.30	7.22	120	790	< 0.003	0.0016	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	0.0016	0.021	< 0.0002	< 0.005	0.564	0.0029	< 0.002
	4/26/2017	0.67	110	F1 190	0.37	7.28	170	770	< 0.003	0.0014	0.063	< 0.001	< 0.0005	< 0.005	< 0.001	0.0008	< 0.01	< 0.0002	0.0066	< 0.411	0.013	< 0.002
	6/14/2017	0.44	75	150	0.46	7.47	110	670	< 0.003	0.0012	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0076	< 0.316	0.0029	< 0.002
	8/2/2017	0.28	83	170	0.35	7.30	99	770	< 0.003	< 0.001	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0053	0.659	< 0.0025	< 0.002
	10/18/2017	0.42	110	110	0.38	7.16	95	720	< 0.003	0.002	0.067	^< 0.001	< 0.0005	< 0.005	< 0.001	0.0023	0.018	< 0.0002	< 0.005	< 0.371	0.0029	^< 0.002
	4/24/2018	0.31	110	300	0.34	7.33	130	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/31/2018 R	NA	NA	NA	NA	NA	NA	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/17/2018	0.31	110	210	0.36	7.29	93	810	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/6/2019	0.38	130	500	0.31	7.11	84	1300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/3/2019 R	NA	NA	150	NA	NA	NA	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/2019	0.31	180	130	0.3	7.44	64	590	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/4/2019 R	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/20/2020	0.32	100	270	0.37	7.03	67	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/22/2020	0.52	92	180	0.38	7.16	85	720	< 0.003	0.0012	0.069	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0054	NA	0.003	< 0.002
	5/18/2021	0.37	130	410	0.3	7.00	160	1300	< 0.003	0.0015	0.1	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	< 0.005	< 0.5970	< 0.0025	< 0.002
	6/29/2021 R	NA	NA	430	NA	7.33	150	1300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8/27/2021	0.36	100	300	0.3	6.94	140	960	^+< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	< 0.005	0.528	0.0027	< 0.002
	11/16/2021	0.44	120	260	0.3	7.08	140	970	< 0.003	0.0016	0.079	^1+< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0069	0.738	< 0.0025	< 0.002
	3/3/2022	0.43	110	230	0.3	7.04	140	900	< 0.003	0.0015	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	< 0.005	0.514	< 0.0025	< 0.002
	5/26/2022	0.55	120	320	0.31	6.86	140	1100	< 0.003	0.003	0.082	^+< 0.001	< 0.0005	< 0.005	< 0.001	0.0018	0.015	< 0.0002	< 0.005	< 0.656	0.0029	< 0.002
	8/31/2022	0.43	110	240	0.32	6.5	130	1100	< 0.003	0.0015	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	< 0.005	< 0.421	< 0.0025	< 0.002
	11/9/2022	0.39	120	230	0.42	7	120	910	< 0.003	0.0021	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	0.00093	0.015	< 0.0002	< 0.005	< 0.501	< 0.0025	< 0.002
	2/28/2023	0.60	160	130	0.35	7.15	260	980	< 0.0030	0.0019	0.080	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00084	0.013	< 0.00020	0.011	< 0.685	0.022	< 0.0020
	3/23/2023 R	0.46	130	NA	NA	NA	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/3/2023	0.50	110	270	0.30	6.96	120	910	< 0.0030	< 0.0010	0.072	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	< 0.0050	< 0.604	0.0027	< 0.0020
	7/20/2023	0.45	110	240	0.30	6.94	120	900	< 0.0030	0.0011	0.070	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	< 0.0050	< 0.607	< 0.0025	< 0.0020
	10/26/2023	0.42	110	220	0.32	6.96	150	910	< 0.0030	0.0012	0.073	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	0.0050	1.16	0.0025	< 0.0020
	1/23/2024	0.49	110	210	0.29	6.93	210	1000	^1+< 0.0030	0.0012	0.098	^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.016	< 0.00020	0.0050	0.779	< 0.0025	< 0.0020
	5/22/2024	0.58	110	260	0.34	7.07	180	1100	< 0.0030	< 0.0010	0.072	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	< 0.0050	0.834	< 0.0025	< 0.0020
	7/30/2024	0.52	100	150	0.31	7.45	140	750	< 0.0030	< 0.0010	0.068	< 0.0010	< 0.00050	< 0.0050	< 0.0010	^1+< 0.00050	0.014	< 0.00020	0.0051	< 0.488	0.0025	< 0.0020
	10/29/2024	0.48	100	150	0.32	7.34	150	840	< 0.0030	< 0.0010	0.072	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.015	< 0.00020	< 0.0050	< 0.19	< 0.0025	< 0.0020
	1/29/2025	0.50	120	180	0.34	7.16	170	920	< 0.0030	0.0012	0.083	^1+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.018	< 0.00020	< 0.0050	< 0.254	< 0.0025	< 0.0020

Notes: All units are in mg/l except pH is in standard units and radium is in pCi/L.
DNYA - Data not yet available.
F1 - MS and/or MSD Recovery outside of limits.
F2 - MS/MSD RPD exceeds control limits.
NA - Not analyzed. No confirmation resample required.
^+ - Continuing calibration verification is outside acceptance limits, high biased.

R - Resampled under federal rule.

Table 2.Turbidity Measurement Data, Midwest Generation, LLC, Joliet #29 Generating Station

Well ID	Date	Turbidity (NTU)
MW-03	3/2/2021	0.45
	4/10/2021	22.9
	4/25/2021	2.40
	5/18/2021	2.53
	6/11/2021	2.34
	6/29/2021	2.86
	7/19/2021	37.40
	8/9/2021	2.71
	8/30/2021	5.70
	9/27/2021	10.27
	11/16/2021	0.80
	3/3/2022	0.00
	5/26/2022	4.26
	8/31/2022	4.10
	11/9/2022	32.60
	2/28/2023	6.98
	5/3/2023	3.00
	7/20/2023	5.90
	10/26/2023	3.50
	1/23/2024	90.70
MW-04	5/22/2024	48.07
	7/30/2024	8.94
	10/28/2024	4.82
	1/29/2025	68.25
	3/2/2021	81.89
	4/10/2021	5.96
	4/25/2021	3.02
	5/18/2021	2.52
	6/11/2021	2.80
	6/29/2021	3.34
	7/19/2021	47.4
	8/9/2021	4.13
	8/30/2021	18.3
	9/27/2021	1.76
	11/16/2021	4.20
	3/3/2022	0.00
	5/26/2022	1.23
	8/31/2022	3.78
	11/9/2022	43.50
	2/28/2023	62.10
MW-05	5/3/2023	6.30
	7/20/2023	6.00
	10/26/2023	1.60
	1/23/2024	80.10
	5/22/2024	24.27
	7/30/2024	5.04
	10/29/2024	5.30
	1/29/2025	51.63
	2/25/2021	1.57
	4/10/2021	8.36
	4/25/2021	2.42
	5/17/2021	5.20
	6/11/2021	14.22
	6/29/2021	5.33
	7/19/2021	26.9
	8/9/2021	3.69
	8/27/2021	8.70
	9/27/2021	14.92
	11/16/2021	8.84
	3/3/2022	3.25
	5/26/2022	1.28
	8/31/2022	8.87
	11/9/2022	63.4
	2/28/2023	58.32
	5/3/2023	2.50
	7/20/2023	6.00
	10/26/2023	1.10
	1/23/2024	7.12
	5/22/2024	3.23
	7/30/2024	2.46
	10/29/2024	17.59
	1/29/2025	44.19

Table 2.Turbidity Measurement Data, Midwest Generation, LLC, Joliet #29 Generating Station

Well ID	Date	Turbidity (NTU)
MW-10	3/2/2021	26.07
	4/10/2021	7.31
	4/25/2021	5.21
	5/18/2021	3.73
	6/11/2021	6.65
	6/29/2021	9.49
	7/19/2021	14.5
	8/9/2021	10.08
	8/30/2021	9.3
	9/27/2021	16.3
	11/16/2021	5.59
	3/3/2022	2.86
	5/26/2022	2.08
	8/31/2022	2.93
	11/9/2022	19.6
	2/28/2023	17.13
	5/3/2023	2.6
	7/20/2023	5.6
	10/26/2023	1.4
	1/23/2024	82.7
	5/22/2024	49.31
	7/30/2024	2.27
	10/29/2024	3.17
	1/29/2025	60.43

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/12/2025 8:36:35 AM

JOB DESCRIPTION

Joliet #29 CCR

JOB NUMBER

500-263294-1

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
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Authorized for release by
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Case Narrative

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

Job ID: 500-263294-1

Job ID: 500-263294-1

Eurofins Chicago

Job Narrative 500-263294-1

Receipt

The samples were received on 1/30/2025 10:00 AM. 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 -0.8°C and -0.7°C.

Metals

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 500-805187 was above the upper control limit. The affected analytes are: Beryllium. Sample results were non-detects, and have been reported as qualified data.

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

General Chemistry

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

Eurofins Chicago

Method Summary

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

Job ID: 500-263294-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-263294-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-263294-1	MW-03	Water	01/29/25 11:08	01/30/25 10:00
500-263294-2	MW-04	Water	01/29/25 12:16	01/30/25 10:00
500-263294-3	MW-05	Water	01/29/25 13:49	01/30/25 10:00
500-263294-4	MW-10	Water	01/29/25 15:12	01/30/25 10:00
500-263294-5	Duplicate	Water	01/29/25 00:00	01/30/25 10:00

Client Sample Results

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

Job ID: 500-263294-1

Client Sample ID: MW-03

Lab Sample ID: 500-263294-1

Date Collected: 01/29/25 11:08

Matrix: Water

Date Received: 01/30/25 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	F1 F2	0.0030		mg/L		01/31/25 08:24	02/03/25 14:53	1
Arsenic	0.0014	F1 F2	0.0010		mg/L		01/31/25 08:24	02/03/25 14:53	1
Barium	0.12	F1 F2	0.0025		mg/L		01/31/25 08:24	02/03/25 14:53	1
Beryllium	<0.0010	^1+ F1 F2	0.0010		mg/L		01/31/25 08:24	02/03/25 14:53	1
Boron	0.37	F1 F2	0.050		mg/L		01/31/25 08:24	02/03/25 14:53	1
Cadmium	<0.00050	F1 F2	0.00050		mg/L		01/31/25 08:24	02/03/25 14:53	1
Calcium	130	F2	0.20		mg/L		01/31/25 08:24	02/03/25 14:53	1
Chromium	<0.0050	F1 F2	0.0050		mg/L		01/31/25 08:24	02/03/25 14:53	1
Cobalt	<0.0010	F1 F2	0.0010		mg/L		01/31/25 08:24	02/03/25 14:53	1
Lead	<0.00050	F1 F2	0.00050		mg/L		01/31/25 08:24	02/03/25 14:53	1
Lithium	0.013	F1 F2	0.010		mg/L		01/31/25 08:24	02/03/25 14:53	1
Molybdenum	0.0055	F1 F2	0.0050		mg/L		01/31/25 08:24	02/03/25 14:53	1
Selenium	<0.0025	F1 F2	0.0025		mg/L		01/31/25 08:24	02/03/25 14:53	1
Thallium	<0.0020	F1 F2	0.0020		mg/L		01/31/25 08:24	02/03/25 14:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/05/25 11:10	02/06/25 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			01/31/25 05:53	1
Chloride (SM 4500 Cl- E)	230		10		mg/L			02/02/25 12:33	5
Fluoride (SM 4500 F C)	0.43		0.10		mg/L			01/31/25 14:14	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			02/04/25 12:14	5

Client Sample Results

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

Job ID: 500-263294-1

Client Sample ID: MW-04

Lab Sample ID: 500-263294-2

Date Collected: 01/29/25 12:16

Matrix: Water

Date Received: 01/30/25 10:00

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		01/31/25 08:24	02/03/25 15:12	1
Arsenic	0.0015		0.0010		mg/L		01/31/25 08:24	02/03/25 15:12	1
Barium	0.079		0.0025		mg/L		01/31/25 08:24	02/03/25 15:12	1
Beryllium	<0.0010	^1+	0.0010		mg/L		01/31/25 08:24	02/03/25 15:12	1
Boron	0.36		0.050		mg/L		01/31/25 08:24	02/03/25 15:12	1
Cadmium	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 15:12	1
Calcium	120		0.20		mg/L		01/31/25 08:24	02/03/25 15:12	1
Chromium	<0.0050		0.0050		mg/L		01/31/25 08:24	02/03/25 15:12	1
Cobalt	0.013		0.0010		mg/L		01/31/25 08:24	02/03/25 15:12	1
Lead	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 15:12	1
Lithium	0.013		0.010		mg/L		01/31/25 08:24	02/03/25 15:12	1
Molybdenum	0.0059		0.0050		mg/L		01/31/25 08:24	02/03/25 15:12	1
Selenium	<0.0025		0.0025		mg/L		01/31/25 08:24	02/03/25 15:12	1
Thallium	<0.0020		0.0020		mg/L		01/31/25 08:24	02/03/25 15:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/05/25 11:10	02/06/25 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	920		10		mg/L			01/31/25 05:56	1
Chloride (SM 4500 Cl- E)	210		10		mg/L			02/02/25 12:33	5
Fluoride (SM 4500 F C)	0.46		0.10		mg/L			01/31/25 14:28	1
Sulfate (SM 4500 SO4 E)	140		25		mg/L			02/04/25 12:14	5

Client Sample Results

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

Job ID: 500-263294-1

Client Sample ID: MW-05

Lab Sample ID: 500-263294-3

Date Collected: 01/29/25 13:49

Matrix: Water

Date Received: 01/30/25 10:00

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		01/31/25 08:24	02/03/25 15:15	1
Arsenic	0.0012		0.0010		mg/L		01/31/25 08:24	02/03/25 15:15	1
Barium	0.083		0.0025		mg/L		01/31/25 08:24	02/03/25 15:15	1
Beryllium	<0.0010	^1+	0.0010		mg/L		01/31/25 08:24	02/03/25 15:15	1
Boron	0.50		0.050		mg/L		01/31/25 08:24	02/03/25 15:15	1
Cadmium	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 15:15	1
Calcium	120		0.20		mg/L		01/31/25 08:24	02/03/25 15:15	1
Chromium	<0.0050		0.0050		mg/L		01/31/25 08:24	02/03/25 15:15	1
Cobalt	<0.0010		0.0010		mg/L		01/31/25 08:24	02/03/25 15:15	1
Lead	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 15:15	1
Lithium	0.018		0.010		mg/L		01/31/25 08:24	02/03/25 15:15	1
Molybdenum	<0.0050		0.0050		mg/L		01/31/25 08:24	02/03/25 15:15	1
Selenium	<0.0025		0.0025		mg/L		01/31/25 08:24	02/03/25 15:15	1
Thallium	<0.0020		0.0020		mg/L		01/31/25 08:24	02/03/25 15:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/05/25 11:10	02/06/25 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	920		10		mg/L			01/31/25 05:59	1
Chloride (SM 4500 Cl- E)	180		10		mg/L			02/02/25 12:34	5
Fluoride (SM 4500 F C)	0.34		0.10		mg/L			01/31/25 14:32	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			02/04/25 12:15	5

Client Sample Results

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

Job ID: 500-263294-1

Client Sample ID: MW-10

Lab Sample ID: 500-263294-4

Date Collected: 01/29/25 15:12

Matrix: Water

Date Received: 01/30/25 10:00

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		01/31/25 08:24	02/03/25 15:17	1
Arsenic	0.0011		0.0010		mg/L		01/31/25 08:24	02/03/25 15:17	1
Barium	0.055		0.0025		mg/L		01/31/25 08:24	02/03/25 15:17	1
Beryllium	<0.0010	^1+	0.0010		mg/L		01/31/25 08:24	02/03/25 15:17	1
Boron	0.50		0.050		mg/L		01/31/25 08:24	02/03/25 15:17	1
Cadmium	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 15:17	1
Calcium	140		0.20		mg/L		01/31/25 08:24	02/03/25 15:17	1
Chromium	<0.0050		0.0050		mg/L		01/31/25 08:24	02/03/25 15:17	1
Cobalt	<0.0010		0.0010		mg/L		01/31/25 08:24	02/03/25 15:17	1
Lead	0.00089		0.00050		mg/L		01/31/25 08:24	02/03/25 15:17	1
Lithium	0.015		0.010		mg/L		01/31/25 08:24	02/03/25 15:17	1
Molybdenum	0.0066		0.0050		mg/L		01/31/25 08:24	02/03/25 15:17	1
Selenium	<0.0025		0.0025		mg/L		01/31/25 08:24	02/03/25 15:17	1
Thallium	<0.0020		0.0020		mg/L		01/31/25 08:24	02/03/25 15:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/05/25 11:10	02/06/25 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			01/31/25 06:01	1
Chloride (SM 4500 Cl- E)	250		20		mg/L			02/02/25 12:34	10
Fluoride (SM 4500 F C)	0.40		0.10		mg/L			01/31/25 14:37	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			02/04/25 12:13	5

Client Sample Results

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

Job ID: 500-263294-1

Client Sample ID: Duplicate

Lab Sample ID: 500-263294-5

Date Collected: 01/29/25 00:00

Matrix: Water

Date Received: 01/30/25 10:00

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		01/31/25 08:24	02/03/25 15:20	1
Arsenic	0.0014		0.0010		mg/L		01/31/25 08:24	02/03/25 15:20	1
Barium	0.12		0.0025		mg/L		01/31/25 08:24	02/03/25 15:20	1
Beryllium	<0.0010	^1+	0.0010		mg/L		01/31/25 08:24	02/03/25 15:20	1
Boron	0.36		0.050		mg/L		01/31/25 08:24	02/03/25 15:20	1
Cadmium	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 15:20	1
Calcium	130		0.20		mg/L		01/31/25 08:24	02/03/25 15:20	1
Chromium	<0.0050		0.0050		mg/L		01/31/25 08:24	02/03/25 15:20	1
Cobalt	<0.0010		0.0010		mg/L		01/31/25 08:24	02/03/25 15:20	1
Lead	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 15:20	1
Lithium	0.013		0.010		mg/L		01/31/25 08:24	02/03/25 15:20	1
Molybdenum	0.0050		0.0050		mg/L		01/31/25 08:24	02/03/25 15:20	1
Selenium	0.0028		0.0025		mg/L		01/31/25 08:24	02/03/25 15:20	1
Thallium	<0.0020		0.0020		mg/L		01/31/25 08:24	02/03/25 15:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/05/25 11:10	02/06/25 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			01/31/25 06:04	1
Chloride (SM 4500 Cl- E)	220		10		mg/L			02/02/25 12:34	5
Fluoride (SM 4500 F C)	0.43		0.10		mg/L			01/31/25 14:41	1
Sulfate (SM 4500 SO4 E)	150		25		mg/L			02/04/25 12:12	5

Definitions/Glossary

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

Job ID: 500-263294-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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: 500-263294-1

Metals

Prep Batch: 804835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total Recoverable	Water	3005A	
500-263294-2	MW-04	Total Recoverable	Water	3005A	
500-263294-3	MW-05	Total Recoverable	Water	3005A	
500-263294-4	MW-10	Total Recoverable	Water	3005A	
500-263294-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-804835/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-804835/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-263294-1 MS	MW-03	Total Recoverable	Water	3005A	
500-263294-1 MSD	MW-03	Total Recoverable	Water	3005A	
500-263294-1 DU	MW-03	Total Recoverable	Water	3005A	

Analysis Batch: 805187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total Recoverable	Water	6020B	804835
500-263294-2	MW-04	Total Recoverable	Water	6020B	804835
500-263294-3	MW-05	Total Recoverable	Water	6020B	804835
500-263294-4	MW-10	Total Recoverable	Water	6020B	804835
500-263294-5	Duplicate	Total Recoverable	Water	6020B	804835
MB 500-804835/1-A	Method Blank	Total Recoverable	Water	6020B	804835
LCS 500-804835/2-A	Lab Control Sample	Total Recoverable	Water	6020B	804835
500-263294-1 MS	MW-03	Total Recoverable	Water	6020B	804835
500-263294-1 MSD	MW-03	Total Recoverable	Water	6020B	804835
500-263294-1 DU	MW-03	Total Recoverable	Water	6020B	804835

Prep Batch: 805377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total/NA	Water	7470A	
500-263294-2	MW-04	Total/NA	Water	7470A	
500-263294-3	MW-05	Total/NA	Water	7470A	
500-263294-4	MW-10	Total/NA	Water	7470A	
500-263294-5	Duplicate	Total/NA	Water	7470A	
MB 500-805377/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-805377/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 805542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total/NA	Water	7470A	805377
500-263294-2	MW-04	Total/NA	Water	7470A	805377
500-263294-3	MW-05	Total/NA	Water	7470A	805377
500-263294-4	MW-10	Total/NA	Water	7470A	805377
500-263294-5	Duplicate	Total/NA	Water	7470A	805377
MB 500-805377/12-A	Method Blank	Total/NA	Water	7470A	805377
LCS 500-805377/13-A	Lab Control Sample	Total/NA	Water	7470A	805377

General Chemistry

Analysis Batch: 804801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total/NA	Water	SM 2540C	
500-263294-2	MW-04	Total/NA	Water	SM 2540C	
500-263294-3	MW-05	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-263294-1

General Chemistry (Continued)

Analysis Batch: 804801 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-4	MW-10	Total/NA	Water	SM 2540C	
500-263294-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-804801/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-804801/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 804986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-263294-2	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-263294-3	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-263294-4	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-263294-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-804986/67	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-804986/68	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 805095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total/NA	Water	SM 4500 F C	
500-263294-2	MW-04	Total/NA	Water	SM 4500 F C	
500-263294-3	MW-05	Total/NA	Water	SM 4500 F C	
500-263294-4	MW-10	Total/NA	Water	SM 4500 F C	
500-263294-5	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-805095/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-805095/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-263294-1 MS	MW-03	Total/NA	Water	SM 4500 F C	
500-263294-1 MSD	MW-03	Total/NA	Water	SM 4500 F C	

Analysis Batch: 805302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-263294-2	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-263294-3	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-263294-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-263294-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-805302/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-805302/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-263294-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-804835/1-A

Matrix: Water

Analysis Batch: 805187

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 804835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		01/31/25 08:24	02/03/25 14:48	1
Arsenic	<0.0010		0.0010		mg/L		01/31/25 08:24	02/03/25 14:48	1
Barium	<0.0025		0.0025		mg/L		01/31/25 08:24	02/03/25 14:48	1
Beryllium	<0.0010	^1+	0.0010		mg/L		01/31/25 08:24	02/03/25 14:48	1
Boron	<0.050		0.050		mg/L		01/31/25 08:24	02/03/25 14:48	1
Cadmium	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 14:48	1
Calcium	<0.20		0.20		mg/L		01/31/25 08:24	02/03/25 14:48	1
Chromium	<0.0050		0.0050		mg/L		01/31/25 08:24	02/03/25 14:48	1
Cobalt	<0.0010		0.0010		mg/L		01/31/25 08:24	02/03/25 14:48	1
Lead	<0.00050		0.00050		mg/L		01/31/25 08:24	02/03/25 14:48	1
Lithium	<0.010		0.010		mg/L		01/31/25 08:24	02/03/25 14:48	1
Molybdenum	<0.0050		0.0050		mg/L		01/31/25 08:24	02/03/25 14:48	1
Selenium	<0.0025		0.0025		mg/L		01/31/25 08:24	02/03/25 14:48	1
Thallium	<0.0020		0.0020		mg/L		01/31/25 08:24	02/03/25 14:48	1

Lab Sample ID: LCS 500-804835/2-A

Matrix: Water

Analysis Batch: 805187

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 804835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.529		mg/L		106	80 - 120
Arsenic	0.100	0.100		mg/L		100	80 - 120
Barium	0.500	0.510		mg/L		102	80 - 120
Beryllium	0.0500	0.0527	^1+	mg/L		105	80 - 120
Boron	1.00	1.04		mg/L		104	80 - 120
Cadmium	0.0500	0.0520		mg/L		104	80 - 120
Calcium	10.0	9.31		mg/L		93	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.100	0.109		mg/L		109	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Selenium	0.100	0.0991		mg/L		99	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: 500-263294-1 MS

Matrix: Water

Analysis Batch: 805187

Client Sample ID: MW-03

Prep Type: Total Recoverable

Prep Batch: 804835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030	F1 F2	0.500	0.561		mg/L		112	75 - 125
Arsenic	0.0014	F1 F2	0.100	0.108		mg/L		107	75 - 125
Barium	0.12	F1 F2	0.500	0.678		mg/L		112	75 - 125
Beryllium	<0.0010	^1+ F1 F2	0.0500	0.0527	^1+	mg/L		105	75 - 125
Boron	0.37	F1 F2	1.00	1.42		mg/L		105	75 - 125
Cadmium	<0.00050	F1 F2	0.0500	0.0531		mg/L		106	75 - 125
Calcium	130	F2	10.0	140	4	mg/L		143	75 - 125
Chromium	<0.0050	F1 F2	0.200	0.212		mg/L		105	75 - 125
Cobalt	<0.0010	F1 F2	0.500	0.544		mg/L		109	75 - 125

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QC Sample Results

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

Job ID: 500-263294-1

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

Lab Sample ID: 500-263294-1 MS

Matrix: Water

Analysis Batch: 805187

Client Sample ID: MW-03

Prep Type: Total Recoverable

Prep Batch: 804835

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.00050	F1 F2	0.100	0.109		mg/L		109	75 - 125
Lithium	0.013	F1 F2	0.100	0.120		mg/L		107	75 - 125
Molybdenum	0.0055	F1 F2	1.00	1.09		mg/L		108	75 - 125
Selenium	<0.0025	F1 F2	0.100	0.109		mg/L		106	75 - 125
Thallium	<0.0020	F1 F2	0.100	0.111		mg/L		111	75 - 125

Lab Sample ID: 500-263294-1 MSD

Matrix: Water

Analysis Batch: 805187

Client Sample ID: MW-03

Prep Type: Total Recoverable

Prep Batch: 804835

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030	F1 F2	0.500	0.734	F1 F2	mg/L		147	75 - 125	27	20
Arsenic	0.0014	F1 F2	0.100	0.142	F1 F2	mg/L		141	75 - 125	27	20
Barium	0.12	F1 F2	0.500	0.887	F1 F2	mg/L		153	75 - 125	27	20
Beryllium	<0.0010	^1+ F1 F2	0.0500	0.0693	F1 F2 ^1+	mg/L		139	75 - 125	27	20
Boron	0.37	F1 F2	1.00	1.88	F1 F2	mg/L		151	75 - 125	28	20
Cadmium	<0.00050	F1 F2	0.0500	0.0701	F1 F2	mg/L		140	75 - 125	28	20
Calcium	130	F2	10.0	183	4 F2	mg/L		578	75 - 125	27	20
Chromium	<0.0050	F1 F2	0.200	0.278	F1 F2	mg/L		138	75 - 125	27	20
Cobalt	<0.0010	F1 F2	0.500	0.708	F1 F2	mg/L		142	75 - 125	26	20
Lead	<0.00050	F1 F2	0.100	0.142	F1 F2	mg/L		142	75 - 125	27	20
Lithium	0.013	F1 F2	0.100	0.157	F1 F2	mg/L		144	75 - 125	27	20
Molybdenum	0.0055	F1 F2	1.00	1.43	F1 F2	mg/L		143	75 - 125	28	20
Selenium	<0.0025	F1 F2	0.100	0.140	F1 F2	mg/L		138	75 - 125	25	20
Thallium	<0.0020	F1 F2	0.100	0.145	F1 F2	mg/L		145	75 - 125	26	20

Lab Sample ID: 500-263294-1 DU

Matrix: Water

Analysis Batch: 805187

Client Sample ID: MW-03

Prep Type: Total Recoverable

Prep Batch: 804835

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030	F1 F2	<0.0030		mg/L		NC	20
Arsenic	0.0014	F1 F2	0.00141		mg/L		0.2	20
Barium	0.12	F1 F2	0.119		mg/L		0.8	20
Beryllium	<0.0010	^1+ F1 F2	<0.0010	^1+	mg/L		NC	20
Boron	0.37	F1 F2	0.368		mg/L		0.6	20
Cadmium	<0.00050	F1 F2	<0.00050		mg/L		NC	20
Calcium	130	F2	128		mg/L		2	20
Chromium	<0.0050	F1 F2	<0.0050		mg/L		NC	20
Cobalt	<0.0010	F1 F2	<0.0010		mg/L		NC	20
Lead	<0.00050	F1 F2	<0.00050		mg/L		NC	20
Lithium	0.013	F1 F2	0.0128		mg/L		0.5	20
Molybdenum	0.0055	F1 F2	0.00510		mg/L		7	20
Selenium	<0.0025	F1 F2	0.00296		mg/L		NC	20
Thallium	<0.0020	F1 F2	<0.0020		mg/L		NC	20

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QC Sample Results

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

Job ID: 500-263294-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-805377/12-A
Matrix: Water
Analysis Batch: 805542

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 805377

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/05/25 11:10	02/06/25 08:05	1

Lab Sample ID: LCS 500-805377/13-A
Matrix: Water
Analysis Batch: 805542

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 805377

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 500-804801/1
Matrix: Water
Analysis Batch: 804801

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			01/31/25 05:31	1

Lab Sample ID: LCS 500-804801/2
Matrix: Water
Analysis Batch: 804801

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 500-804986/67
Matrix: Water
Analysis Batch: 804986

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/02/25 12:08	1

Lab Sample ID: LCS 500-804986/68
Matrix: Water
Analysis Batch: 804986

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	19.6		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-805095/31
Matrix: Water
Analysis Batch: 805095

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			01/31/25 13:34	1

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QC Sample Results

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

Job ID: 500-263294-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-805095/32

Matrix: Water

Analysis Batch: 805095

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	9.94		mg/L		99	90 - 119

Lab Sample ID: 500-263294-1 MS

Matrix: Water

Analysis Batch: 805095

Client Sample ID: MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.43		5.00	5.65		mg/L		104	75 - 125

Lab Sample ID: 500-263294-1 MSD

Matrix: Water

Analysis Batch: 805095

Client Sample ID: MW-03

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.43		5.00	5.70		mg/L		105	75 - 125	1	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-805302/16

Matrix: Water

Analysis Batch: 805302

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			02/04/25 11:12	1

Lab Sample ID: LCS 500-805302/17

Matrix: Water

Analysis Batch: 805302

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	20.8		mg/L		104	88 - 123

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Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-263294-1

Login Number: 263294

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	-0.8,-0.7 samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-263294-1

Client Sample ID: MW-03

Date Collected: 01/29/25 11:08

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			804835	BDE	EET CHI	01/31/25 08:24 - 01/31/25 14:24 ¹
Total Recoverable	Analysis	6020B		1	805187	RN	EET CHI	02/03/25 14:53
Total/NA	Prep	7470A			805377	MJG	EET CHI	02/05/25 11:10 - 02/05/25 13:10 ¹
Total/NA	Analysis	7470A		1	805542	MJG	EET CHI	02/06/25 08:09
Total/NA	Analysis	SM 2540C		1	804801	CLB	EET CHI	01/31/25 05:53
Total/NA	Analysis	SM 4500 CI- E		5	804986	TR	EET CHI	02/02/25 12:33
Total/NA	Analysis	SM 4500 F C		1	805095	SO	EET CHI	01/31/25 14:14
Total/NA	Analysis	SM 4500 SO4 E		5	805302	TR	EET CHI	02/04/25 12:14

Client Sample ID: MW-04

Date Collected: 01/29/25 12:16

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			804835	BDE	EET CHI	01/31/25 08:24 - 01/31/25 14:24 ¹
Total Recoverable	Analysis	6020B		1	805187	RN	EET CHI	02/03/25 15:12
Total/NA	Prep	7470A			805377	MJG	EET CHI	02/05/25 11:10 - 02/05/25 13:10 ¹
Total/NA	Analysis	7470A		1	805542	MJG	EET CHI	02/06/25 08:12
Total/NA	Analysis	SM 2540C		1	804801	CLB	EET CHI	01/31/25 05:56
Total/NA	Analysis	SM 4500 CI- E		5	804986	TR	EET CHI	02/02/25 12:33
Total/NA	Analysis	SM 4500 F C		1	805095	SO	EET CHI	01/31/25 14:28
Total/NA	Analysis	SM 4500 SO4 E		5	805302	TR	EET CHI	02/04/25 12:14

Client Sample ID: MW-05

Date Collected: 01/29/25 13:49

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			804835	BDE	EET CHI	01/31/25 08:24 - 01/31/25 14:24 ¹
Total Recoverable	Analysis	6020B		1	805187	RN	EET CHI	02/03/25 15:15
Total/NA	Prep	7470A			805377	MJG	EET CHI	02/05/25 11:10 - 02/05/25 13:10 ¹
Total/NA	Analysis	7470A		1	805542	MJG	EET CHI	02/06/25 08:14
Total/NA	Analysis	SM 2540C		1	804801	CLB	EET CHI	01/31/25 05:59
Total/NA	Analysis	SM 4500 CI- E		5	804986	TR	EET CHI	02/02/25 12:34
Total/NA	Analysis	SM 4500 F C		1	805095	SO	EET CHI	01/31/25 14:32
Total/NA	Analysis	SM 4500 SO4 E		5	805302	TR	EET CHI	02/04/25 12:15

Client Sample ID: MW-10

Date Collected: 01/29/25 15:12

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			804835	BDE	EET CHI	01/31/25 08:24 - 01/31/25 14:24 ¹
Total Recoverable	Analysis	6020B		1	805187	RN	EET CHI	02/03/25 15:17

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Lab Chronicle

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

Job ID: 500-263294-1

Client Sample ID: MW-10

Date Collected: 01/29/25 15:12

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			805377	MJG	EET CHI	02/05/25 11:10 - 02/05/25 13:10 ¹
Total/NA	Analysis	7470A		1	805542	MJG	EET CHI	02/06/25 08:16
Total/NA	Analysis	SM 2540C		1	804801	CLB	EET CHI	01/31/25 06:01
Total/NA	Analysis	SM 4500 Cl- E		10	804986	TR	EET CHI	02/02/25 12:34
Total/NA	Analysis	SM 4500 F C		1	805095	SO	EET CHI	01/31/25 14:37
Total/NA	Analysis	SM 4500 SO4 E		5	805302	TR	EET CHI	02/04/25 12:13

Client Sample ID: Duplicate

Date Collected: 01/29/25 00:00

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			804835	BDE	EET CHI	01/31/25 08:24 - 01/31/25 14:24 ¹
Total Recoverable	Analysis	6020B		1	805187	RN	EET CHI	02/03/25 15:20
Total/NA	Prep	7470A			805377	MJG	EET CHI	02/05/25 11:10 - 02/05/25 13:10 ¹
Total/NA	Analysis	7470A		1	805542	MJG	EET CHI	02/06/25 08:18
Total/NA	Analysis	SM 2540C		1	804801	CLB	EET CHI	01/31/25 06:04
Total/NA	Analysis	SM 4500 Cl- E		5	804986	TR	EET CHI	02/02/25 12:34
Total/NA	Analysis	SM 4500 F C		1	805095	SO	EET CHI	01/31/25 14:41
Total/NA	Analysis	SM 4500 SO4 E		5	805302	TR	EET CHI	02/04/25 12:12

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

Laboratory References:

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/26/2025 4:01:01 PM

JOB DESCRIPTION

Joliet #29 CCR (RAD)

JOB NUMBER

500-263294-2

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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2/26/2025 4:01:01 PM

Authorized for release by
Diana Mockler, Project Manager I
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Case Narrative

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

Job ID: 500-263294-2

Job ID: 500-263294-2

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Job Narrative 500-263294-2

Receipt

The samples were received on 1/30/2025 10:00 AM. 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 -0.8°C and -0.7°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.

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Method Summary

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

Job ID: 500-263294-2

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: 500-263294-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-263294-1	MW-03	Water	01/29/25 11:08	01/30/25 10:00
500-263294-2	MW-04	Water	01/29/25 12:16	01/30/25 10:00
500-263294-3	MW-05	Water	01/29/25 13:49	01/30/25 10:00
500-263294-4	MW-10	Water	01/29/25 15:12	01/30/25 10:00
500-263294-5	Duplicate	Water	01/29/25 00:00	01/30/25 10:00

Client Sample Results

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

Job ID: 500-263294-2

Client Sample ID: MW-03

Lab Sample ID: 500-263294-1

Date Collected: 01/29/25 11:08

Matrix: Water

Date Received: 01/30/25 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0969	U	0.104	0.104	1.00	0.168	pCi/L	02/03/25 07:55	02/25/25 08:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					02/03/25 07:55	02/25/25 08:27	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.440	U	0.334	0.336	1.00	0.507	pCi/L	02/03/25 07:58	02/19/25 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					02/03/25 07:58	02/19/25 12:02	1
Y Carrier	83.7		30 - 110					02/03/25 07:58	02/19/25 12:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.537		0.350	0.352	5.00	0.507	pCi/L		02/26/25 12:03	1

Client Sample Results

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

Job ID: 500-263294-2

Client Sample ID: MW-04

Lab Sample ID: 500-263294-2

Date Collected: 01/29/25 12:16

Matrix: Water

Date Received: 01/30/25 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.145		0.0974	0.0982	1.00	0.138	pCi/L	02/03/25 07:55	02/25/25 08:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					02/03/25 07:55	02/25/25 08:21	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.297	U	0.308	0.309	1.00	0.497	pCi/L	02/03/25 07:58	02/19/25 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					02/03/25 07:58	02/19/25 12:02	1
Y Carrier	88.6		30 - 110					02/03/25 07:58	02/19/25 12:02	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	0.442	U	0.323	0.324	5.00	0.497	pCi/L		02/26/25 12:03	1

Client Sample Results

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

Job ID: 500-263294-2

Client Sample ID: MW-05

Lab Sample ID: 500-263294-3

Date Collected: 01/29/25 13:49

Matrix: Water

Date Received: 01/30/25 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0736	U	0.0808	0.0810	1.00	0.130	pCi/L	02/03/25 07:55	02/25/25 08:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					02/03/25 07:55	02/25/25 08:22	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	0.181	U	0.402	0.402	1.00	0.701	pCi/L	02/03/25 07:58	02/19/25 13:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		30 - 110					02/03/25 07:58	02/19/25 13:53	1
Y Carrier	84.1		30 - 110					02/03/25 07:58	02/19/25 13:53	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	0.254	U	0.410	0.410	5.00	0.701	pCi/L		02/26/25 12:03	1

Client Sample Results

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

Job ID: 500-263294-2

Client Sample ID: MW-10

Lab Sample ID: 500-263294-4

Date Collected: 01/29/25 15:12

Matrix: Water

Date Received: 01/30/25 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0757	U	0.0829	0.0831	1.00	0.133	pCi/L	02/03/25 07:55	02/25/25 08:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		30 - 110					02/03/25 07:55	02/25/25 08:22	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	-0.110	U	0.409	0.409	1.00	0.794	pCi/L	02/03/25 07:58	02/19/25 13:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.4		30 - 110					02/03/25 07:58	02/19/25 13:53	1
Y Carrier	82.6		30 - 110					02/03/25 07:58	02/19/25 13:53	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	-0.0345	U	0.417	0.417	5.00	0.794	pCi/L		02/26/25 12:03	1

Client Sample Results

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

Job ID: 500-263294-2

Client Sample ID: Duplicate

Lab Sample ID: 500-263294-5

Date Collected: 01/29/25 00:00

Matrix: Water

Date Received: 01/30/25 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.235		0.104	0.107	1.00	0.115	pCi/L	02/03/25 07:55	02/25/25 08:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					02/03/25 07:55	02/25/25 08:22	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	0.267	U	0.381	0.382	1.00	0.644	pCi/L	02/03/25 07:58	02/19/25 13:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					02/03/25 07:58	02/19/25 13:53	1
Y Carrier	84.9		30 - 110					02/03/25 07:58	02/19/25 13:53	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	0.502	U	0.395	0.397	5.00	0.644	pCi/L		02/26/25 12:03	1

Definitions/Glossary

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

Job ID: 500-263294-2

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: 500-263294-2

Rad

Prep Batch: 701117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total/NA	Water	PrecSep-21	
500-263294-2	MW-04	Total/NA	Water	PrecSep-21	
500-263294-3	MW-05	Total/NA	Water	PrecSep-21	
500-263294-4	MW-10	Total/NA	Water	PrecSep-21	
500-263294-5	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-701117/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-701117/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 701118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263294-1	MW-03	Total/NA	Water	PrecSep_0	
500-263294-2	MW-04	Total/NA	Water	PrecSep_0	
500-263294-3	MW-05	Total/NA	Water	PrecSep_0	
500-263294-4	MW-10	Total/NA	Water	PrecSep_0	
500-263294-5	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-701118/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-701118/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-263294-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-701117/1-A
Matrix: Water
Analysis Batch: 704609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 701117

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03474	U	0.0621	0.0622	1.00	0.111	pCi/L	02/03/25 07:55	02/25/25 08:11	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					02/03/25 07:55	02/25/25 08:11	1

Lab Sample ID: LCS 160-701117/2-A
Matrix: Water
Analysis Batch: 704609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 701117

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		9.58	8.204		0.904	1.00	0.121	pCi/L	86	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	97.4		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-701118/1-A
Matrix: Water
Analysis Batch: 703819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 701118

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4909	U	0.410	0.412	1.00	0.644	pCi/L	02/03/25 07:58	02/19/25 12:03	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					02/03/25 07:58	02/19/25 12:03	1
Y Carrier	81.1		30 - 110					02/03/25 07:58	02/19/25 12:03	1

Lab Sample ID: LCS 160-701118/2-A
Matrix: Water
Analysis Batch: 703864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 701118

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		8.08	8.596		1.23	1.00	0.625	pCi/L	106	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	97.4		30 - 110							
Y Carrier	77.8		30 - 110							

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Ver 10/10/2024 2/26/2025

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-263294-2

Login Number: 263294

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	-0.8,-0.7 samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

Eurofins Chicago

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-263294-2

Login Number: 263294

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 01/31/25 01:51 PM

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

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

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-263294-2

Client Sample ID: MW-03

Date Collected: 01/29/25 11:08

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701117	OGC	EET SL	02/03/25 07:55
Total/NA	Analysis	903.0		1	704611	FLC	EET SL	02/25/25 08:27
Total/NA	Prep	PrecSep_0			701118	OGC	EET SL	02/03/25 07:58
Total/NA	Analysis	904.0		1	703864	FLC	EET SL	02/19/25 12:02
Total/NA	Analysis	Ra226_Ra228		1	704966	SCB	EET SL	02/26/25 12:03

Client Sample ID: MW-04

Date Collected: 01/29/25 12:16

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701117	OGC	EET SL	02/03/25 07:55
Total/NA	Analysis	903.0		1	704737	FLC	EET SL	02/25/25 08:21
Total/NA	Prep	PrecSep_0			701118	OGC	EET SL	02/03/25 07:58
Total/NA	Analysis	904.0		1	703864	FLC	EET SL	02/19/25 12:02
Total/NA	Analysis	Ra226_Ra228		1	704966	SCB	EET SL	02/26/25 12:03

Client Sample ID: MW-05

Date Collected: 01/29/25 13:49

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701117	OGC	EET SL	02/03/25 07:55
Total/NA	Analysis	903.0		1	704737	FLC	EET SL	02/25/25 08:22
Total/NA	Prep	PrecSep_0			701118	OGC	EET SL	02/03/25 07:58
Total/NA	Analysis	904.0		1	703864	FLC	EET SL	02/19/25 13:53
Total/NA	Analysis	Ra226_Ra228		1	704966	SCB	EET SL	02/26/25 12:03

Client Sample ID: MW-10

Date Collected: 01/29/25 15:12

Date Received: 01/30/25 10:00

Lab Sample ID: 500-263294-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701117	OGC	EET SL	02/03/25 07:55
Total/NA	Analysis	903.0		1	704737	FLC	EET SL	02/25/25 08:22
Total/NA	Prep	PrecSep_0			701118	OGC	EET SL	02/03/25 07:58
Total/NA	Analysis	904.0		1	703864	FLC	EET SL	02/19/25 13:53
Total/NA	Analysis	Ra226_Ra228		1	704966	SCB	EET SL	02/26/25 12:03

Lab Chronicle

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

Job ID: 500-263294-2

Client Sample ID: Duplicate

Lab Sample ID: 500-263294-5

Date Collected: 01/29/25 00:00

Matrix: Water

Date Received: 01/30/25 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701117	OGC	EET SL	02/03/25 07:55
Total/NA	Analysis	903.0		1	704737	FLC	EET SL	02/25/25 08:22
Total/NA	Prep	PrecSep_0			701118	OGC	EET SL	02/03/25 07:58
Total/NA	Analysis	904.0		1	703864	FLC	EET SL	02/19/25 13:53
Total/NA	Analysis	Ra226_Ra228		1	704966	SCB	EET SL	02/26/25 12:03

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: 500-263294-2

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)	
500-263294-1	MW-03	93.4	
500-263294-2	MW-04	91.6	
500-263294-3	MW-05	91.8	
500-263294-4	MW-10	81.4	
500-263294-5	Duplicate	89.3	
LCS 160-701117/2-A	Lab Control Sample	97.4	
MB 160-701117/1-A	Method Blank	91.3	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-263294-1	MW-03	93.4	83.7
500-263294-2	MW-04	91.6	88.6
500-263294-3	MW-05	91.8	84.1
500-263294-4	MW-10	81.4	82.6
500-263294-5	Duplicate	89.3	84.9
LCS 160-701118/2-A	Lab Control Sample	97.4	77.8
MB 160-701118/1-A	Method Blank	91.3	81.1
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	1-29-25
Sample Name	MW-03	Start Time	10:50	
Condition of Well	GOOD			
Water Level	33.34	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS MOD ODORLESS TURB	
Volume Removed	2.25 Gals.	W L at Sample Time	11:08	
Method of Sample	Low-Flow	Sample Characteristics	APPARENTLY CLEAR CLA FILTERED.	
Sample Analysis	CCA + CCR + ^{CCR} DUPS	Sample Time	11:08	
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)
10:53	33.33	7.77	11.2	1.213	9.72	206.6	180.14
10:56	—	7.34	12.9	1.441	5.51	215.7	119.13
10:59	33.34	7.25	11.5	1.436	4.47	219.1	110.56
11:02	33.32	7.21	11.2	1.415	3.88	219.8	87.14
11:05	33.32	7.18	11.3	1.422	3.67	220.4	74.18
11:08	33.32	7.17	11.3	1.425	3.62	220.9	68.25
—							

SAMPLING NOTES:

Sampler Name and
Company:

KPRG and Associates

(Handwritten signature)

PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	1-29-25
Sample Name	MU-04	Start Time	12:04	
Condition of Well	GOOD			
Water Level	33.66	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS TRACE ODORLESS TURB	
Volume Removed	1.75 GTS.	W L at Sample Time	33.65	
Method of Sample	Low-Flow	Sample Characteristics	COLORLESS TRACE CCA FILTERED TURB.	
Sample Analysis	CCA + CCR	Sample Time	12:16	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:07	33.66	7.81	11.0	1.320	7.42	211.7	49.87
12:10	33.65	7.21	12.1	1.352	6.10	217.2	57.26
12:13	33.65	7.17	12.2	1.377	5.32	219.7	46.21
12:16	33.65	7.16	12.1	1.376	5.14	220.6	51.63
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	1-29-25
Sample Name	MW-05	Start Time		
Condition of Well	Good			
Water Level	34.32	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS TRACE ODORLESS TURB	
Volume Removed	2.0 QTB	W L at Sample Time	34.32	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR TRACE CCA-FILTERED. TURB	
Sample Analysis	CCA + CCR	Sample Time	13:49	
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)
13:37	34.33	7.79	10.5	1.074	9.43	226.7	86.10
13:40	34.33	7.35	12.3	1.192	7.51	233.6	38.73
13:43	34.32	7.20	12.6	1.301	5.60	235.8	47.35
13:46	34.32	7.17	12.5	1.320	4.77	235.9	51.69
13:49	34.32	7.16	12.6	1.325	4.68	236.1	44.19
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	NRG - JOLIET #29 STATION (12313.0)		DATE	1-29-25
Sample Name	MW-10	Start Time	14:54	
Condition of Well	GOOD			
Water Level	34.55	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	cloudy / colorless MOD odorless turb	
Volume Removed	2.5 RB.	W L at Sample Time	34.55	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR TASTE CCA FILTERED turb	
Sample Analysis		Sample Time	15:12	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
14:57	34.55	7.40	11.4	1.419	8.75	229.4	162.35
15:00	34.55	7.23	11.5	1.439	7.95	237.1	186.12
15:03	34.55	7.29	11.5	1.456	8.78	245.2	128.41
15:06	—	7.33	10.9	1.458	7.54	247.4	103.61
15:09	34.55	7.15	11.3	1.472	6.85	249.1	81.76
15:12	34.55	7.13	11.4	1.473	6.78	249.2	60.43
—							

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates