

## DATA SUMMARY POSTING

Station: Midwest Generation Waukegan Generating Station

Regulated Unit(s):   East Pond (BOL Log No. 2021-512)  
                              West Pond (BOL Log No. 2021-513)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 3<sup>rd</sup> quarter 2025 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit submitted on 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, Waukegan Station, Waukegan, 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 Combined	Selenium	Thallium	Turbidity	
MW-09 up-gradient	1/4/2015	13	210	450	0.14	6.60	370	1700	< 0.0030	< 0.0010	0.015	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.081	< 0.00020	0.26	0.1818	< 0.0025	< 0.0020	NA	
	3/2/2016	35	380	720	0.11	7.02	970	2800	< 0.0030	0.060	0.050	< 0.0010	< 0.0050	0.043	< 0.0010	0.00061	0.094	< 0.00020	0.51	< 0.360	0.025	< 0.0020	NA	
	5/3/2016	16	310	620	0.12	7.02	740	2500	< 0.0030	0.0014	0.025	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.083	< 0.00020	0.63	< 0.512	0.024	< 0.0020	NA	
	8/25/2016	4.5	130	270	0.21	7.13	190	1100	0.0041	0.042	0.024	< 0.0010	0.0011	0.056	0.0027	0.0012	0.049	< 0.00020	0.063	0.482	0.039	< 0.0020	NA	
	12/8/2016	15	200	330	0.18	7.01	270	1300	< 0.0030	0.0040	0.016	< 0.0010	0.0052	< 0.0050	< 0.0010	< 0.00050	0.077	< 0.00020	0.24	< 0.720	0.038	< 0.0020	NA	
	2/23/2017	14	190	290	0.12	7.68	320	1300	< 0.0030	0.0027	0.014	< 0.0010	< 0.0050	0.059	0.0018	< 0.00050	0.068	< 0.00020	0.26	< 0.461	0.016	< 0.0020	NA	
	5/16/2017	27	970	67	0.29	8.15	420	970	< 0.0030	< 0.0010	0.0094	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.51	< 0.342	0.0085	< 0.0020	NA	
	7/6/2017	21	220	430	0.13	7.18	610	1800	< 0.0030	0.0020	0.018	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.089	< 0.00020	0.31	< 0.316	0.021	< 0.0020	NA	
	9/13/2017	21	250	420	0.14	7.17	520	1800	< 0.0030	0.0067	0.019	< 0.0010	< 0.0050	0.052	0.0017	< 0.00050	0.069	< 0.00020	0.33	< 0.944	0.0041	< 0.0020	NA	
	11/29/2017	26	200	390	0.13	7.05	390	1600	< 0.0030	0.0017	0.015	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.086	< 0.00020	0.47	< 0.625	0.042	< 0.0020	NA	
	5/31/2018	32	200	29	0.10	6.85	490	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2018	30	170	23	0.11	7.33	290	930	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/15/2019	26	120	260	0.13	7.53	31	1000	< 0.0030	< 0.0010	0.0073	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.035	< 0.00020	0.54	< 0.433	< 0.0025	< 0.0020	NA	
	11/19/2019	22	160	17	0.16	8.04	300	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/22/2020	22	140	9.2	0.18	7.81	360	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/18/2020	28	250	290	0.18	7.43	420	1700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/6/2021	31	170	35	0.12	7.51	420	910	< 0.0030	< 0.0010	0.0075	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.47	< 0.614	0.023	< 0.0020	3.44	
	8/19/2021	7.2	150	170	0.13	7.01	210	350	< 0.0030	0.0019	0.015	< 0.0010	< 0.0050	< 0.0050	^ < 0.0010	0.0015	0.066	< 0.00020	0.12	< 0.457	0.071	^ < 0.0020	77.36	
	11/4/2021	10	150	160	0.24	7.07	180	980	< 0.0030	0.0026	0.074	^ < 0.0010	< 0.0050	< 0.0050	0.0011	< 0.00050	0.060	< 0.00020	0.12	< 0.775	0.097	< 0.0020	12.66	
	2/10/2022	9.5	190	220	0.17	7.11	270	1300	< 0.0030	0.015	0.033	< 0.0010	< 0.0076	< 0.0050	0.0038	< 0.00050	0.065	< 0.00020	0.21	< 0.523	0.036	< 0.0020	34.39	
	5/24/2022	5.3	150	180	0.23	7.15	200	940	< 0.0030	0.0019	0.020	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.054	< 0.00020	0.18	< 0.444	< 0.0025	< 0.0020	170.87	
	8/23/2022	12	170	170	0.10	7.14	290	1100	< 0.0030	0.0012	0.046	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.048	< 0.00020	0.21	< 0.487	0.034	< 0.0020	34.90	
	11/7/2022	6.4	160	200	0.51	6.98	220	1100	< 0.0030	0.0083	0.14	^ < 0.0010	< 0.0050	< 0.0050	0.0013	0.0034	0.057	< 0.00020	0.088	2.58	< 0.0025	< 0.0020	195.02	
	12/21/2022 (R)	NS	NS	NS	0.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/14/2023	B 2.8	280	220	0.12	6.97	490	1500	< 0.0030	0.0011	0.074	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.062	< 0.00020	0.46	1.01	0.029	< 0.0020	20.46	
	5/9/2023	4.7	140	220	0.23	7.08	200	890	< 0.0030	0.0011	0.021	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.15	< 0.557	< 0.0025	< 0.0020	9.34	
	8/8/2023	^ < 20	270	380	0.23	6.98	510	1800	< 0.0030	0.0021	0.11	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.062	< 0.00020	0.35	0.754	0.022	< 0.0020	18.85	
	11/28/2023	2.6	96	170	0.33	7.15	130	750	< 0.0030	0.0071	0.061	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.053	< 0.00020	0.049	0.652	< 0.0025	< 0.0020	27.24	
	2/6/2024	24	240	150	0.18	6.88	460	1300	^ < 0.0030	0.0035	0.12	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.20	< 0.00020	0.32	1.09	0.070	< 0.0020	147.43	
	5/21/2024	2.3	120	180	0.37	7.12	130	860	< 0.0030	0.027	0.13	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.047	< 0.00020	0.074	0.768	< 0.0025	< 0.0020	105.62	
	8/13/2024	8.5	130	91	0.34	7.08	200	860	< 0.0030	0.0062	0.085	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.14	1.10	< 0.0025	< 0.0020	10.56	
	11/12/2024	2.8	130	170	0.32	7.12	130	870	< 0.0030	0.013	0.11	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.047	< 0.00020	0.055	0.92	< 0.0025	< 0.0020	15.83	
	2/4/2025	2.9	130	160	0.27	7.16	180	890	< 0.0030	0.0077	0.070	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	^ < 0.051	< 0.00020	0.053	< 0.507	< 0.0025	< 0.0020	7.13	
	5/12/2025	2.3	130	150	0.29	7.04	140	700	< 0.0030	0.012	0.095	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.040	< 0.00020	0.043	0.914	< 0.0025	< 0.0020	19.45	
	8/5/2025	8.0	150	230	0.40	6.98	240	1100	< 0.0030	0.018	0.13	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.038	< 0.00020	0.097	1.54	< 0.0025	< 0.0020	19.19	
	MW-11 up-gradient	11/5/2015	5.2	140	240	0.13	6.51	190	1100	< 0.0030	0.77	0.039	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	0.0010	0.055	< 0.00020	< 0.0050	0.656	< 0.0025	< 0.0020	NA
		3/2/2016	4.0	170	240	0.10	7.16	210	1200	< 0.0030	0.55	0.048	^ < 0.0010	< 0.0050	0.058	< 0.0010	0.0011	0.049	< 0.00020	< 0.0050	1.09	< 0.0025	< 0.0020	NA
		5/5/2016	5.0	140	280	0.11	7.17	160	1000	< 0.0030	0.51	0.038	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.057	< 0.00020	< 0.0050	1.24	< 0.0025	< 0.0020	NA
		8/26/2016	3.5	180	240	0.13	6.97	110	1100	< 0.0030	1.1	0.050	< 0.0010	< 0.0050	0.055	< 0.0010	< 0.00050	0.055	< 0.00020	< 0.0050	1.04	< 0.0025	< 0.0020	NA
		12/7/2016	3.0	170	270	0.12	7.06	110	1200	< 0.0030	0.87	0.049	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.038	< 0.00020	< 0.0050	1.87	< 0.0025	< 0.0020	NA
2/24/2017		2.4	180	220	0.19	6.61	170	1200	< 0.0030	0.58	0.047	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.039	< 0.00020	< 0.0050	0.982	< 0.0025	< 0.0020	NA	
5/18/2017		1.8	170	170	0.12	7.42	120	1000	< 0.0030	0.50	0.047	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.036	< 0.00020	< 0.0050	1.31	< 0.0025	< 0.0020	NA	
7/6/2017		2.4	160	190	0.14	7.33	130	1100	< 0.0030	0.69	0.056	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	0.041	< 0.00020	< 0.0050	0.889	< 0.0025	< 0.0020	NA	
9/13/2017		1.9	140	150	0.26	7.16	96	870	< 0.0030	0.86	0.036	< 0.0010	< 0.0050	0.080	< 0.0010	< 0.00071	0.037	< 0.00020	0					

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Waukegan Station, Waukegan, 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 Combined	Selenium	Thallium	Turbidity	
MW-01 down-gradient	11/2/2015	1.8	64	71	0.46	10.93	310	560	< 0.0030	0.074	0.025	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.040	0.0683	0.0047	< 0.0020	NA	
	3/1/2016	V 1.9	58	63	0.26	11.13	270	570	< 0.0030	0.10	0.026	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.059	< 0.317	< 0.0025	< 0.0020	NA	
	5/4/2016	2.0	45	60	0.30	11.09	210	490	< 0.0030	0.11	0.017	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.069	< 0.40	< 0.0025	< 0.0020	NA	
	8/23/2016	2.0	42	60	0.26	10.49	240	550	< 0.0030	0.074	0.012	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.065	< 0.478	0.0042	< 0.0020	NA	
	12/5/2016	2.2	55	65	0.34	10.46	180	560	< 0.0030	0.13	0.017	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.070	< 0.465	0.0025	< 0.0020	NA	
	2/21/2017	2.2	50	61	0.29	11.30	250	540	< 0.0030	0.15	0.016	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.069	0.516	< 0.0025	< 0.0020	NA	
	5/15/2017	2.1	52	59	0.37	10.69	330	570	< 0.0030	0.14	0.017	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.062	< 0.424	0.0036	< 0.0020	NA	
	7/5/2017	2.3	44	51	0.34	10.83	320	570	< 0.0030	0.066	0.014	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.059	< 0.289	0.0095	< 0.0020	NA	
	9/14/2017	2.4	71	47	0.24	10.45	430	770	< 0.0030	0.040	0.033	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.047	< 0.383	0.0096	< 0.0020	NA	
	11/27/2017	2.7	84	43	0.11	7.85	330	840	< 0.0030	0.021	0.055	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.034	0.568	0.0230	< 0.0020	NA	
	5/29/2018	2.4	54	58	0.33	8.44	350	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/5/2018	2.0	38	43	0.25	8.70	210	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/14/2019	2.2	56	45	0.18	9.85	250	560	< 0.0030	0.067	0.032	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.053	0.36	< 0.0025	< 0.0020	NA	
	11/19/2019	2.3	38	39	0.24	10.58	240	530	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2020	2.8	55	25	0.22	9.40	240	470	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/2020	3.3	120	95	0.14	7.97	250	640	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2021	< 5.0	66	67	0.22	9.00	180	430	< 0.0030	0.025	0.040	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.016	< 0.602	< 0.0025	< 0.0020	1.42	
	8/18/2021	2.7	72	60	0.17	8.31	170	430	< 0.0030	0.023	0.044	< 0.0010	< 0.0050	< 0.0050	^+ < 0.0010	< 0.00050	< 0.010	< 0.00020	0.021	< 0.471	< 0.0025	^+ < 0.0020	2.33	
	11/3/2021	2.9	67	60	0.22	8.56	180	440	< 0.0030	0.024	0.040	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.026	< 0.553	< 0.0025	< 0.0020	3.05	
	2/8/2022	3.1	62	42	0.27	8.67	230	530	< 0.0030	0.023	0.037	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.030	< 0.408	< 0.0025	< 0.0020	4.60	
	5/23/2022	3.3	94	34	0.20	7.77	200	490	< 0.0030	0.018	0.053	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.026	< 0.434	< 0.0025	< 0.0020	2.92	
	8/22/2022	2.8	52	43	0.34	8.60	190	430	< 0.0030	0.023	0.027	^1+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.032	0.698	< 0.0025	< 0.0020	1.31	
	11/7/2022	3.0	59	48	0.43	8.45	180	460	< 0.0030	0.024	0.030	^1+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.026	0.944	< 0.0025	< 0.0020	41.21	
	2/13/2023	2.6	46	63	0.24	8.58	170	440	< 0.0030	0.023	0.026	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.027	< 0.529	< 0.0025	< 0.0020	2.90	
	5/8/2023	2.1	45	54	0.39	8.87	160	370	< 0.0030	0.022	0.027	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.023	< 0.507	< 0.0025	< 0.0020	3.21	
	8/7/2023	^+ 1.8	46	50	0.40	9.08	150	340	< 0.0030	0.022	0.027	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.020	< 0.474	< 0.0025	< 0.0020	3.15	
	11/27/2023	1.6	54	61	0.31	9.00	140	390	< 0.0030	0.023	0.033	^1+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.018	< 0.560	< 0.0025	< 0.0020	3.74	
	2/5/2024	2.3	58	70	0.34	8.57	170	550	^1+ < 0.0030	0.022	0.033	^+ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.10	< 0.00020	0.018	0.684	< 0.0025	< 0.0020	5.07	
	5/20/2024	2.3	110	91	0.20	7.57	210	650	< 0.0030	0.017	0.068	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.017	< 0.531	< 0.0025	< 0.0020	4.72	
	8/12/2024	1.8	63	81	0.28	8.65	170	460	< 0.0030	0.019	0.035	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.021	< 0.606	< 0.0025	< 0.0020	6.80	
	11/11/2024	2.4	94	82	0.22	7.40	190	550	< 0.0030	0.012	0.053	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.025	< 0.516	0.0036	< 0.0020	2.25	
	2/3/2025	1.8	66	75	0.24	7.67	160	420	< 0.0030	0.019	0.037	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.025	< 0.403	< 0.0025	< 0.0020	4.31	
5/12/2025	2.2	63	82	0.26	7.66	160	450	< 0.0030	0.013	0.037	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.018	< 0.0771	0.0046	< 0.0020	4.02		
8/4/2025	1.8	45	FI 73	0.30	7.14	120	390	< 0.0030	0.015	0.027	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.027	< 0.580	< 0.0025	< 0.0020	8.42		
MW-02 down-gradient	11/2/2015	3.0	32	47	0.78	8.27	230	460	< 0.0030	0.014	0.016	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.0630	0.4628	< 0.0025	< 0.0020	NA	
	3/1/2016	4.1	39	47	1.3	8.57	220	510	< 0.0030	0.011	0.020	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.078	0.529	< 0.0025	< 0.0020	NA	
	5/4/2016	3.3	34	51	1.5	8.19	180	440	< 0.0030	0.0081	0.018	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.069	< 0.425	< 0.0025	< 0.0020	NA	
	8/23/2016	3.1	42	59	1.3	7.52	250	500	< 0.0030	0.0082	0.016	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.056	< 0.439	< 0.0025	< 0.0020	NA	
	12/5/2016	3.1	28	56	1.0	8.62	160	430	< 0.0030	0.018	0.015	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.071	0.509	< 0.0025	< 0.0020	NA	
	2/21/2017	3.3	31	52	0.76	8.75	190	420	< 0.0030	0.028	0.012	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.051	< 0.416	0.0038	< 0.0020	NA	
	5/15/2017	3.6	85	48	0.64	8.33	320	640	< 0.0030	0.020	0.029	^ < 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.047	0.425	0.0030	< 0.0020	NA	
	7/5/2017	4.2	100	52	0.42	7.92	300	710	< 0.0030	0.0094	0.031	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.047	< 0.395	< 0.0170	< 0.0020	NA	
	9/14/2017	2.5	87	54	0.44	8.19	340	780	< 0.0030	0.012	0.035	< 0.0010	< 0.0050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.049	0.0052	< 0.0020	NA		

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Waukegan Station, Waukegan, 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 Combined	Selenium	Thallium	Turbidity	
MW-04 down-gradient	11/3/2015	1.8	66	62	0.51	6.68	240	480	< 0.0030	0.0066	0.032	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.031	0.2732	< 0.0025	< 0.0020	NA	
	3/1/2016	2.0	58	51	0.50	7.17	170	450	< 0.0030	0.0083	0.033	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.048	0.478	< 0.0025	< 0.0020	NA	
	5/4/2016	1.6	44	49	0.61	6.92	140	340	< 0.0030	0.0083	0.017	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.046	< 0.542	< 0.0025	< 0.0020	NA	
	8/24/2016	2.0	46	58	0.56	7.01	120	370	< 0.0030	0.010	0.019	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.049	< 0.461	< 0.0025	< 0.0020	NA	
	12/5/2016	3.4	200	60	0.21	7.40	300	1000	< 0.0030	0.019	0.13	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.10	1.04	< 0.0020	< 0.0020	NA	
	2/22/2017	2.4	150	41	0.17	7.44	290	850	< 0.0030	0.036	0.093	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.015	0.886	0.0042	< 0.0020	NA	
	5/16/2017	2.5	170	29	0.32	7.92	400	970	< 0.0030	0.024	0.072	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.017	0.550	0.032	< 0.0020	NA	
	7/5/2017	3.6	200	51	0.29	7.09	520	1100	< 0.0030	0.0034	0.076	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.017	0.515	0.062	< 0.0020	NA	
	9/14/2017	2.5	180	45	0.28	7.04	480	1100	< 0.0030	0.0028	0.076	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.021	0.794	0.026	< 0.0020	NA	
	11/28/2017	2.3	110	32	0.28	7.04	130	560	< 0.0030	0.0027	0.053	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.032	0.872	0.0069	< 0.0020	NA	
	5/30/2018	3.0	150	21	0.38	6.57	200	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2018	2.5	150	58	0.37	6.83	240	900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/14/2019	3.3	100	58	0.64	7.30	200	730	< 0.0030	0.0026	0.039	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.070	0.690	0.0040	< 0.0020	NA	
	11/19/2019	2.9	120	44	0.75	7.27	270	680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2020	2.9	100	33	0.90	7.18	290	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/18/2020	3.1	100	18	1.1	7.17	250	690	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2021	3.3	75	17	0.91	7.46	190	530	< 0.0030	0.0069	0.032	< 0.0010	< 0.00050	< 0.0050	^+< 0.0010	< 0.00050	< 0.010	< 0.00020	0.056	< 0.781	0.0041	< 0.0020	1.77	
	8/18/2021	3.0	92	39	0.80	7.45	200	590	< 0.0030	0.0052	0.041	< 0.0010	< 0.00050	< 0.0050	^+< 0.0010	< 0.00050	< 0.010	< 0.00020	0.045	0.523	< 0.0025	^+< 0.0020	40.61	
	11/3/2021	2.7	67	50	0.99	7.36	150	550	< 0.0030	0.0094	0.037	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	^+< 0.0010	< 0.00020	0.040	0.572	< 0.0025	< 0.0020	4.26	
	2/8/2022	3.1	110	38	0.66	7.61	190	660	< 0.0030	0.024	0.057	< 0.0010	< 0.00050	< 0.0050	0.0011	< 0.00050	0.0076	< 0.00020	0.014	1.21	< 0.0025	< 0.0020	13.32	
	5/23/2022	2.5	81	41	0.61	8.05	150	510	< 0.0030	0.012	0.038	^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.019	0.598	< 0.0025	< 0.0020	28.94	
	8/22/2022	FI 3.1	100	31	0.55	7.82	230	660	< 0.0030	0.0070	0.043	^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.025	0.618	0.011	< 0.0020	2.57	
	11/7/2022	2.7	63	33	0.62	7.47	180	450	< 0.0030	0.0073	0.026	^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.0048	< 0.010	< 0.00020	0.026	1.85	< 0.0025	< 0.0020	41.15	
	2/13/2023	2.8	110	28	0.36	7.58	210	610	< 0.0030	0.0083	0.045	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.021	0.489	0.0062	< 0.0020	3.76	
	5/9/2023	2.3	100	59	0.38	7.16	250	560	< 0.0030	0.0073	0.049	^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.034	< 0.549	0.0072	< 0.0020	15.03	
	8/8/2023	^+ 2.5	58	63	0.40	7.81	150	400	< 0.0030	0.0088	0.026	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.041	0.807	< 0.0025	< 0.0020	2.54	
	11/27/2023	2.4	44	58	0.37	7.63	130	360	< 0.0030	0.0089	0.023	^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.062	0.642	< 0.0025	< 0.0020	4.22	
	2/5/2024	2.7	74	45	0.46	7.33	130	430	^+< 0.0030	0.0078	0.034	^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.10	< 0.00020	0.037	< 0.474	0.0081	< 0.0020	3.73	
	5/21/2024	2.2	64	58	0.40	7.59	130	450	< 0.0030	0.0060	0.028	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.041	< 0.526	0.0045	< 0.0020	5.67	
	8/12/2024	3.2	210	55	0.35	6.89	420	1200	< 0.0030	0.0033	0.076	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.026	< 0.821	0.020	< 0.0020	6.33	
	11/11/2024	2.7	50	65	0.41	7.58	170	410	< 0.0030	0.011	0.026	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.070	< 0.632	< 0.0025	< 0.0020	3.79	
	2/5/2025	2.6	46	88	0.30	8.30	160	460	< 0.0030	0.012	0.025	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.077	< 0.142	< 0.0025	< 0.0020	6.70	
	5/12/2025	2.3	26	68	0.67	8.60	150	200	< 0.0030	0.0092	0.014	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.044	< 0.276	0.0042	< 0.0020	3.85	
	8/4/2025	2.4	42	FI 75	0.56	8.19	160	460	< 0.0030	0.010	0.019	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.054	< 0.454	< 0.0025	< 0.0020	8.14	
	MW-16 down-gradient	11/3/2015	4.1	230	87	0.43	6.24	610	1400	< 0.0030	0.010	0.047	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.071	< 0.00020	0.021	0.865	0.0074	< 0.0020	NA
3/2/2016		3.1	360	130	0.35	6.76	990	1700	< 0.0030	0.015	0.035	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.013	< 0.396	0.0052	< 0.0020	NA	
5/2/2016		4.9	250	150	0.49	6.99	620	1600	< 0.0030	0.011	0.052	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.024	< 0.00020	0.014	0.696	< 0.0025	< 0.0020	NA	
8/24/2016		3.6	130	53	0.71	7.00	330	830	< 0.0030	< 0.0010	0.028	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.00020	0.022	< 0.462	< 0.0025	< 0.0020	NA	
12/5/2016		3.8	160	52	0.51	7.03	280	920	< 0.0030	0.036	0.062	< 0.0010	< 0.00050	< 0.0050	0.0012	< 0.00050	0.011	< 0.00020	0.021	0.791	< 0.0025	< 0.0020	NA	
2/24/2017		6.5	200	67	0.2	5.76	570	1100	< 0.0030	0.027	0.067	< 0.0010	< 0.00050	< 0.0050	0.0011	< 0.00050	0.012	< 0.00020	0.023	0.540	0.0037	< 0.0020	NA	
3/16/2017		2.6	340	130	0.15	7.57	760	1700	< 0.0030	0.043	0.045	^< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.13	< 0.00020	0.016	0.441	0.016	< 0.0020	NA	
7/6/2017		9.5	190	70	0.57	7.35	480	1100	< 0.0030	0.029	0.029	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.017	< 0.00020	0.017	< 0.382	< 0.0025	< 0.0020	NA	
9/13/2017		2.8	190	55	0.61	7.33	460	970	< 0.0030	< 0.0010	0.024	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.00020	0.024	< 0.335	< 0.0025	< 0.0020	NA	

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

Attn: Richard Gnat  
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Brookfield, Wisconsin 53005

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**JOB DESCRIPTION**

Waukegan CCR  
Quarterly Waukegan CCR

**JOB NUMBER**

500-272580-1

# Eurofins Chicago

## Job Notes

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## Authorization



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	16
QC Association . . . . .	17
QC Sample Results . . . . .	21
Chain of Custody . . . . .	28
Receipt Checklists . . . . .	33
Chronicle . . . . .	34
Certification Summary . . . . .	37

# Case Narrative

Client: KPRG and Associates, Inc.  
Project: Waukegan CCR

Job ID: 500-272580-1

**Job ID: 500-272580-1**

**Eurofins Chicago**

## Job Narrative 500-272580-1

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

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

### Receipt

The samples were received on 8/5/2025 9:05 AM and 8/6/2025 9:05 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 2.8°C and 9.5°C.

### Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: water present in cooler indicating melted ice.

### Metals

Method 6020B - Total Recoverable: The initial lo level calibration verification (ICVL) result for batch 500-830406 was above the upper control limit. The affected analytes are: Beryllium. Sample results were non-detects, and have been reported as qualified data.

Method 6020B - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-09 (500-272580-6) and MW-16 (500-272580-9). Elevated reporting limits (RLs) are provided.

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: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

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

**Protocol References:**

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

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

**Laboratory References:**

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

# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-272580-1	MW-01	Water	08/04/25 11:33	08/05/25 09:05	Illinois
500-272580-2	MW-02	Water	08/04/25 12:56	08/05/25 09:05	Illinois
500-272580-3	MW-03	Water	08/04/25 14:04	08/05/25 09:05	Illinois
500-272580-4	MW-04	Water	08/04/25 15:26	08/05/25 09:05	Illinois
500-272580-5	Duplicate	Water	08/04/25 00:00	08/05/25 09:05	Illinois
500-272580-6	MW-09	Water	08/05/25 10:54	08/06/25 09:05	Illinois
500-272580-7	MW-11	Water	08/05/25 13:46	08/06/25 09:05	Illinois
500-272580-8	MW-14	Water	08/05/25 12:13	08/06/25 09:05	Illinois
500-272580-9	MW-16	Water	08/05/25 10:00	08/06/25 09:05	Illinois

- 1
- 2
- 3
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- 11
- 12
- 13

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-272580-1**

Date Collected: 08/04/25 11:33

Matrix: Water

Date Received: 08/05/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/06/25 13:35	08/07/25 12:12	1
<b>Arsenic</b>	<b>0.015</b>		0.0010		mg/L		08/06/25 13:35	08/07/25 12:12	1
<b>Barium</b>	<b>0.027</b>		0.0025		mg/L		08/06/25 13:35	08/07/25 12:12	1
Beryllium	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:12	1
<b>Boron</b>	<b>1.8</b>		0.050		mg/L		08/06/25 13:35	08/07/25 12:12	1
Cadmium	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:12	1
<b>Calcium</b>	<b>45</b>		0.20		mg/L		08/06/25 13:35	08/07/25 12:12	1
Chromium	<0.0050		0.0050		mg/L		08/06/25 13:35	08/07/25 12:12	1
Cobalt	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:12	1
Lead	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:12	1
Lithium	<0.010		0.010		mg/L		08/06/25 13:35	08/07/25 12:12	1
<b>Molybdenum</b>	<b>0.027</b>		0.0050		mg/L		08/06/25 13:35	08/07/25 12:12	1
Selenium	<0.0025		0.0025		mg/L		08/06/25 13:35	08/07/25 12:12	1
Thallium	<0.0020		0.0020		mg/L		08/06/25 13:35	08/07/25 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>390</b>		10		mg/L			08/06/25 08:09	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>73</b>	<b>F1</b>	4.0		mg/L			08/06/25 15:15	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.30</b>		0.10		mg/L			08/11/25 16:44	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>120</b>		25		mg/L			08/10/25 13:19	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-02**

**Lab Sample ID: 500-272580-2**

Date Collected: 08/04/25 12:56

Matrix: Water

Date Received: 08/05/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/06/25 13:35	08/07/25 12:24	1
<b>Arsenic</b>	<b>0.0084</b>		0.0010		mg/L		08/06/25 13:35	08/07/25 12:24	1
<b>Barium</b>	<b>0.017</b>		0.0025		mg/L		08/06/25 13:35	08/07/25 12:24	1
Beryllium	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:24	1
<b>Boron</b>	<b>3.3</b>		0.050		mg/L		08/06/25 13:35	08/07/25 12:24	1
Cadmium	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:24	1
<b>Calcium</b>	<b>45</b>		0.20		mg/L		08/06/25 13:35	08/07/25 12:24	1
Chromium	<0.0050		0.0050		mg/L		08/06/25 13:35	08/07/25 12:24	1
Cobalt	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:24	1
Lead	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:24	1
Lithium	<0.010		0.010		mg/L		08/06/25 13:35	08/07/25 12:24	1
<b>Molybdenum</b>	<b>0.031</b>		0.0050		mg/L		08/06/25 13:35	08/07/25 12:24	1
Selenium	<0.0025		0.0025		mg/L		08/06/25 13:35	08/07/25 12:24	1
Thallium	<0.0020		0.0020		mg/L		08/06/25 13:35	08/07/25 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>440</b>		10		mg/L			08/06/25 08:11	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>68</b>		4.0		mg/L			08/06/25 16:37	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.56</b>		0.10		mg/L			08/11/25 16:59	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>190</b>		25		mg/L			08/10/25 12:49	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-272580-3**

Date Collected: 08/04/25 14:04

Matrix: Water

Date Received: 08/05/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/06/25 13:35	08/07/25 12:26	1
<b>Arsenic</b>	<b>0.016</b>		0.0010		mg/L		08/06/25 13:35	08/07/25 12:26	1
<b>Barium</b>	<b>0.0067</b>		0.0025		mg/L		08/06/25 13:35	08/07/25 12:26	1
Beryllium	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:26	1
<b>Boron</b>	<b>3.7</b>		0.050		mg/L		08/06/25 13:35	08/07/25 12:26	1
Cadmium	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:26	1
<b>Calcium</b>	<b>54</b>		0.20		mg/L		08/06/25 13:35	08/07/25 12:26	1
Chromium	<0.0050		0.0050		mg/L		08/06/25 13:35	08/07/25 12:26	1
Cobalt	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:26	1
Lead	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:26	1
Lithium	<0.010		0.010		mg/L		08/06/25 13:35	08/07/25 12:26	1
<b>Molybdenum</b>	<b>0.034</b>		0.0050		mg/L		08/06/25 13:35	08/07/25 12:26	1
Selenium	<0.0025		0.0025		mg/L		08/06/25 13:35	08/07/25 12:26	1
Thallium	<0.0020		0.0020		mg/L		08/06/25 13:35	08/07/25 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>520</b>		10		mg/L			08/06/25 08:14	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>53</b>		4.0		mg/L			08/06/25 16:37	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.30</b>		0.10		mg/L			08/11/25 17:06	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>240</b>		25		mg/L			08/10/25 12:50	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-272580-4**

Date Collected: 08/04/25 15:26

Matrix: Water

Date Received: 08/05/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/06/25 13:35	08/07/25 12:28	1
<b>Arsenic</b>	<b>0.010</b>		0.0010		mg/L		08/06/25 13:35	08/07/25 12:28	1
<b>Barium</b>	<b>0.019</b>		0.0025		mg/L		08/06/25 13:35	08/07/25 12:28	1
Beryllium	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:28	1
<b>Boron</b>	<b>2.4</b>		0.050		mg/L		08/06/25 13:35	08/07/25 12:28	1
Cadmium	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:28	1
<b>Calcium</b>	<b>42</b>		0.20		mg/L		08/06/25 13:35	08/07/25 12:28	1
Chromium	<0.0050		0.0050		mg/L		08/06/25 13:35	08/07/25 12:28	1
Cobalt	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:28	1
Lead	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:28	1
Lithium	<0.010		0.010		mg/L		08/06/25 13:35	08/07/25 12:28	1
<b>Molybdenum</b>	<b>0.054</b>		0.0050		mg/L		08/06/25 13:35	08/07/25 12:28	1
Selenium	<0.0025		0.0025		mg/L		08/06/25 13:35	08/07/25 12:28	1
Thallium	<0.0020		0.0020		mg/L		08/06/25 13:35	08/07/25 12:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>460</b>		10		mg/L			08/06/25 08:17	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>75</b>	<b>F1</b>	4.0		mg/L			08/06/25 16:37	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.56</b>		0.10		mg/L			08/11/25 17:12	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>160</b>		25		mg/L			08/10/25 12:51	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-272580-5**

Date Collected: 08/04/25 00:00

Matrix: Water

Date Received: 08/05/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/06/25 13:35	08/07/25 12:40	1
<b>Arsenic</b>	<b>0.016</b>		0.0010		mg/L		08/06/25 13:35	08/07/25 12:40	1
<b>Barium</b>	<b>0.027</b>		0.0025		mg/L		08/06/25 13:35	08/07/25 12:40	1
Beryllium	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:40	1
<b>Boron</b>	<b>1.8</b>		0.050		mg/L		08/06/25 13:35	08/07/25 12:40	1
Cadmium	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:40	1
<b>Calcium</b>	<b>45</b>		0.20		mg/L		08/06/25 13:35	08/07/25 12:40	1
Chromium	<0.0050		0.0050		mg/L		08/06/25 13:35	08/07/25 12:40	1
Cobalt	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:40	1
Lead	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:40	1
Lithium	<0.010		0.010		mg/L		08/06/25 13:35	08/07/25 12:40	1
<b>Molybdenum</b>	<b>0.028</b>		0.0050		mg/L		08/06/25 13:35	08/07/25 12:40	1
Selenium	<0.0025		0.0025		mg/L		08/06/25 13:35	08/07/25 12:40	1
Thallium	<0.0020		0.0020		mg/L		08/06/25 13:35	08/07/25 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>330</b>		10		mg/L			08/06/25 08:19	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>72</b>		4.0		mg/L			08/06/25 16:36	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.32</b>		0.10		mg/L			08/11/25 17:19	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>120</b>		25		mg/L			08/10/25 13:19	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-09**

**Lab Sample ID: 500-272580-6**

Date Collected: 08/05/25 10:54

Matrix: Water

Date Received: 08/06/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/08/25 14:16	08/15/25 14:11	1
<b>Arsenic</b>	<b>0.018</b>		0.0010		mg/L		08/08/25 14:16	08/15/25 14:11	1
<b>Barium</b>	<b>0.13</b>		0.0025		mg/L		08/08/25 14:16	08/15/25 14:11	1
Beryllium	<0.0010	^1+	0.0010		mg/L		08/08/25 14:16	08/15/25 14:11	1
<b>Boron</b>	<b>8.0</b>		0.25		mg/L		08/08/25 14:16	08/18/25 15:27	5
Cadmium	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 14:11	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		08/08/25 14:16	08/15/25 14:11	1
Chromium	<0.0050		0.0050		mg/L		08/08/25 14:16	08/15/25 14:11	1
Cobalt	<0.0010		0.0010		mg/L		08/08/25 14:16	08/15/25 14:11	1
Lead	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 14:11	1
<b>Lithium</b>	<b>0.038</b>		0.010		mg/L		08/08/25 14:16	08/15/25 14:11	1
<b>Molybdenum</b>	<b>0.097</b>		0.0050		mg/L		08/08/25 14:16	08/15/25 14:11	1
Selenium	<0.0025		0.0025		mg/L		08/08/25 14:16	08/15/25 14:11	1
Thallium	<0.0020		0.0020		mg/L		08/08/25 14:16	08/15/25 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1100</b>		10		mg/L			08/08/25 09:01	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>230</b>		20		mg/L			08/11/25 09:09	10
<b>Fluoride (SM 4500 F C)</b>	<b>0.40</b>		0.10		mg/L			08/11/25 20:29	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>240</b>		25		mg/L			08/10/25 12:51	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-272580-7**

Date Collected: 08/05/25 13:46

Matrix: Water

Date Received: 08/06/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/08/25 14:16	08/15/25 14:18	1
<b>Arsenic</b>	<b>0.59</b>		0.0010		mg/L		08/08/25 14:16	08/15/25 14:18	1
<b>Barium</b>	<b>0.068</b>		0.0025		mg/L		08/08/25 14:16	08/15/25 14:18	1
Beryllium	<0.0010	^1+	0.0010		mg/L		08/08/25 14:16	08/15/25 14:18	1
<b>Boron</b>	<b>0.94</b>		0.050		mg/L		08/08/25 14:16	08/18/25 15:30	1
Cadmium	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 14:18	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		08/08/25 14:16	08/15/25 14:18	1
<b>Chromium</b>	<b>0.0057</b>		0.0050		mg/L		08/08/25 14:16	08/15/25 14:18	1
Cobalt	<0.0010		0.0010		mg/L		08/08/25 14:16	08/15/25 14:18	1
Lead	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 14:18	1
<b>Lithium</b>	<b>0.029</b>		0.010		mg/L		08/08/25 14:16	08/15/25 14:18	1
Molybdenum	<0.0050		0.0050		mg/L		08/08/25 14:16	08/15/25 14:18	1
Selenium	<0.0025		0.0025		mg/L		08/08/25 14:16	08/15/25 14:18	1
Thallium	<0.0020		0.0020		mg/L		08/08/25 14:16	08/15/25 14:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>700</b>		10		mg/L			08/08/25 09:04	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>67</b>	<b>F1</b>	4.0		mg/L			08/11/25 09:09	2
<b>Fluoride (SM 4500 F C)</b>	<b>0.24</b>		0.10		mg/L			08/11/25 20:36	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>40</b>		5.0		mg/L			08/10/25 12:29	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-272580-8**

Date Collected: 08/05/25 12:13

Matrix: Water

Date Received: 08/06/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/08/25 14:16	08/15/25 14:21	1
<b>Arsenic</b>	<b>4.2</b>		0.0010		mg/L		08/08/25 14:16	08/15/25 14:21	1
<b>Barium</b>	<b>0.069</b>		0.0025		mg/L		08/08/25 14:16	08/15/25 14:21	1
Beryllium	<0.0010	^1+	0.0010		mg/L		08/08/25 14:16	08/15/25 14:21	1
<b>Boron</b>	<b>0.48</b>		0.050		mg/L		08/08/25 14:16	08/18/25 15:32	1
Cadmium	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 14:21	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		08/08/25 14:16	08/15/25 14:21	1
<b>Chromium</b>	<b>0.49</b>		0.0050		mg/L		08/08/25 14:16	08/15/25 14:21	1
Cobalt	<0.0010		0.0010		mg/L		08/08/25 14:16	08/15/25 14:21	1
Lead	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 14:21	1
<b>Lithium</b>	<b>0.015</b>		0.010		mg/L		08/08/25 14:16	08/15/25 14:21	1
Molybdenum	<0.0050		0.0050		mg/L		08/08/25 14:16	08/15/25 14:21	1
Selenium	<0.0025		0.0025		mg/L		08/08/25 14:16	08/15/25 14:21	1
Thallium	<0.0020		0.0020		mg/L		08/08/25 14:16	08/15/25 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>590</b>		10		mg/L			08/08/25 09:07	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>25</b>		2.0		mg/L			08/11/25 09:34	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.19</b>		0.10		mg/L			08/11/25 20:43	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>10</b>		5.0		mg/L			08/10/25 12:29	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-16**

**Lab Sample ID: 500-272580-9**

Date Collected: 08/05/25 10:00

Matrix: Water

Date Received: 08/06/25 09:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/08/25 14:16	08/15/25 14:23	1
<b>Arsenic</b>	<b>0.0037</b>		0.0010		mg/L		08/08/25 14:16	08/15/25 14:23	1
<b>Barium</b>	<b>0.052</b>		0.0025		mg/L		08/08/25 14:16	08/15/25 14:23	1
Beryllium	<0.0010	^1+	0.0010		mg/L		08/08/25 14:16	08/15/25 14:23	1
<b>Boron</b>	<b>7.7</b>		0.25		mg/L		08/08/25 14:16	08/18/25 15:35	5
Cadmium	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 14:23	1
<b>Calcium</b>	<b>220</b>		0.20		mg/L		08/08/25 14:16	08/15/25 14:23	1
Chromium	<0.0050		0.0050		mg/L		08/08/25 14:16	08/15/25 14:23	1
<b>Cobalt</b>	<b>0.0016</b>		0.0010		mg/L		08/08/25 14:16	08/15/25 14:23	1
Lead	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 14:23	1
<b>Lithium</b>	<b>0.021</b>		0.010		mg/L		08/08/25 14:16	08/15/25 14:23	1
<b>Molybdenum</b>	<b>0.016</b>		0.0050		mg/L		08/08/25 14:16	08/15/25 14:23	1
Selenium	<0.0025		0.0025		mg/L		08/08/25 14:16	08/15/25 14:23	1
Thallium	<0.0020		0.0020		mg/L		08/08/25 14:16	08/15/25 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 09:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			08/08/25 09:09	1
<b>Chloride (SM 4500 Cl- E)</b>	<b>100</b>		10		mg/L			08/11/25 10:01	5
<b>Fluoride (SM 4500 F C)</b>	<b>0.63</b>		0.10		mg/L			08/11/25 20:49	1
<b>Sulfate (SM 4500 SO4 E)</b>	<b>470</b>		50		mg/L			08/10/25 12:52	10

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

## 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.

### General Chemistry

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

## Glossary

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

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

## Metals

### Prep Batch: 828931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total Recoverable	Water	3005A	
500-272580-2	MW-02	Total Recoverable	Water	3005A	
500-272580-3	MW-03	Total Recoverable	Water	3005A	
500-272580-4	MW-04	Total Recoverable	Water	3005A	
500-272580-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-828931/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-828931/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-272580-1 MS	MW-01	Total Recoverable	Water	3005A	
500-272580-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-272580-1 DU	MW-01	Total Recoverable	Water	3005A	

### Analysis Batch: 829219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total Recoverable	Water	6020B	828931
500-272580-2	MW-02	Total Recoverable	Water	6020B	828931
500-272580-3	MW-03	Total Recoverable	Water	6020B	828931
500-272580-4	MW-04	Total Recoverable	Water	6020B	828931
500-272580-5	Duplicate	Total Recoverable	Water	6020B	828931
MB 500-828931/1-A	Method Blank	Total Recoverable	Water	6020B	828931
LCS 500-828931/2-A	Lab Control Sample	Total Recoverable	Water	6020B	828931
500-272580-1 MS	MW-01	Total Recoverable	Water	6020B	828931
500-272580-1 MSD	MW-01	Total Recoverable	Water	6020B	828931
500-272580-1 DU	MW-01	Total Recoverable	Water	6020B	828931

### Prep Batch: 829324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-6	MW-09	Total Recoverable	Water	3005A	
500-272580-7	MW-11	Total Recoverable	Water	3005A	
500-272580-8	MW-14	Total Recoverable	Water	3005A	
500-272580-9	MW-16	Total Recoverable	Water	3005A	
MB 500-829324/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-829324/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 829880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total/NA	Water	7470A	
500-272580-2	MW-02	Total/NA	Water	7470A	
500-272580-3	MW-03	Total/NA	Water	7470A	
500-272580-4	MW-04	Total/NA	Water	7470A	
500-272580-5	Duplicate	Total/NA	Water	7470A	
500-272580-6	MW-09	Total/NA	Water	7470A	
500-272580-7	MW-11	Total/NA	Water	7470A	
500-272580-8	MW-14	Total/NA	Water	7470A	
500-272580-9	MW-16	Total/NA	Water	7470A	
MB 500-829880/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-829880/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-272580-2 MS	MW-02	Total/NA	Water	7470A	
500-272580-2 MSD	MW-02	Total/NA	Water	7470A	
500-272580-2 DU	MW-02	Total/NA	Water	7470A	

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

## Metals

### Analysis Batch: 830084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total/NA	Water	7470A	829880
500-272580-2	MW-02	Total/NA	Water	7470A	829880
500-272580-3	MW-03	Total/NA	Water	7470A	829880
500-272580-4	MW-04	Total/NA	Water	7470A	829880
500-272580-5	Duplicate	Total/NA	Water	7470A	829880
500-272580-6	MW-09	Total/NA	Water	7470A	829880
500-272580-7	MW-11	Total/NA	Water	7470A	829880
500-272580-8	MW-14	Total/NA	Water	7470A	829880
500-272580-9	MW-16	Total/NA	Water	7470A	829880
MB 500-829880/12-A	Method Blank	Total/NA	Water	7470A	829880
LCS 500-829880/13-A	Lab Control Sample	Total/NA	Water	7470A	829880
500-272580-2 MS	MW-02	Total/NA	Water	7470A	829880
500-272580-2 MSD	MW-02	Total/NA	Water	7470A	829880
500-272580-2 DU	MW-02	Total/NA	Water	7470A	829880

### Analysis Batch: 830406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-6	MW-09	Total Recoverable	Water	6020B	829324
500-272580-7	MW-11	Total Recoverable	Water	6020B	829324
500-272580-8	MW-14	Total Recoverable	Water	6020B	829324
500-272580-9	MW-16	Total Recoverable	Water	6020B	829324
MB 500-829324/1-A	Method Blank	Total Recoverable	Water	6020B	829324
LCS 500-829324/2-A	Lab Control Sample	Total Recoverable	Water	6020B	829324

### Analysis Batch: 830559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-6	MW-09	Total Recoverable	Water	6020B	829324
500-272580-7	MW-11	Total Recoverable	Water	6020B	829324
500-272580-8	MW-14	Total Recoverable	Water	6020B	829324
500-272580-9	MW-16	Total Recoverable	Water	6020B	829324
MB 500-829324/1-A	Method Blank	Total Recoverable	Water	6020B	829324
LCS 500-829324/2-A	Lab Control Sample	Total Recoverable	Water	6020B	829324

## General Chemistry

### Analysis Batch: 828805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total/NA	Water	SM 2540C	
500-272580-2	MW-02	Total/NA	Water	SM 2540C	
500-272580-3	MW-03	Total/NA	Water	SM 2540C	
500-272580-4	MW-04	Total/NA	Water	SM 2540C	
500-272580-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-828805/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-828805/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 828984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-272580-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-272580-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-272580-4	MW-04	Total/NA	Water	SM 4500 CI- E	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Waukegan CCR

Job ID: 500-272580-1

## General Chemistry (Continued)

### Analysis Batch: 828984 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-5	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-828984/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-828984/63	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-828984/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 500-828984/64	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-272580-1 MS	MW-01	Total/NA	Water	SM 4500 CI- E	
500-272580-1 MSD	MW-01	Total/NA	Water	SM 4500 CI- E	
500-272580-4 MS	MW-04	Total/NA	Water	SM 4500 CI- E	
500-272580-4 MSD	MW-04	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 829245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-6	MW-09	Total/NA	Water	SM 2540C	
500-272580-7	MW-11	Total/NA	Water	SM 2540C	
500-272580-8	MW-14	Total/NA	Water	SM 2540C	
500-272580-9	MW-16	Total/NA	Water	SM 2540C	
MB 500-829245/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-829245/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 829394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-272580-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-272580-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-272580-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-272580-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-272580-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-272580-7	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-272580-8	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-272580-9	MW-16	Total/NA	Water	SM 4500 SO4 E	
MB 500-829394/58	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-829394/59	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 829472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-6	MW-09	Total/NA	Water	SM 4500 CI- E	
500-272580-7	MW-11	Total/NA	Water	SM 4500 CI- E	
500-272580-8	MW-14	Total/NA	Water	SM 4500 CI- E	
500-272580-9	MW-16	Total/NA	Water	SM 4500 CI- E	
MB 500-829472/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-829472/67	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-829472/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 500-829472/68	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-272580-7 MS	MW-11	Total/NA	Water	SM 4500 CI- E	
500-272580-7 MSD	MW-11	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 829583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total/NA	Water	SM 4500 F C	
500-272580-2	MW-02	Total/NA	Water	SM 4500 F C	
500-272580-3	MW-03	Total/NA	Water	SM 4500 F C	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

## General Chemistry (Continued)

### Analysis Batch: 829583 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-4	MW-04	Total/NA	Water	SM 4500 F C	
500-272580-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-272580-6	MW-09	Total/NA	Water	SM 4500 F C	
500-272580-7	MW-11	Total/NA	Water	SM 4500 F C	
500-272580-8	MW-14	Total/NA	Water	SM 4500 F C	
500-272580-9	MW-16	Total/NA	Water	SM 4500 F C	
MB 500-829583/61	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-829583/89	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-829583/62	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-829583/90	Lab Control Sample	Total/NA	Water	SM 4500 F C	

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

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

**Lab Sample ID: MB 500-828931/1-A**  
**Matrix: Water**  
**Analysis Batch: 829219**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 828931**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		08/06/25 13:35	08/07/25 12:08	1
Arsenic	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:08	1
Barium	<0.0025		0.0025		mg/L		08/06/25 13:35	08/07/25 12:08	1
Beryllium	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:08	1
Boron	<0.050		0.050		mg/L		08/06/25 13:35	08/07/25 12:08	1
Cadmium	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:08	1
Calcium	<0.20		0.20		mg/L		08/06/25 13:35	08/07/25 12:08	1
Chromium	<0.0050		0.0050		mg/L		08/06/25 13:35	08/07/25 12:08	1
Cobalt	<0.0010		0.0010		mg/L		08/06/25 13:35	08/07/25 12:08	1
Lead	<0.00050		0.00050		mg/L		08/06/25 13:35	08/07/25 12:08	1
Lithium	<0.010		0.010		mg/L		08/06/25 13:35	08/07/25 12:08	1
Molybdenum	<0.0050		0.0050		mg/L		08/06/25 13:35	08/07/25 12:08	1
Selenium	<0.0025		0.0025		mg/L		08/06/25 13:35	08/07/25 12:08	1
Thallium	<0.0020		0.0020		mg/L		08/06/25 13:35	08/07/25 12:08	1

**Lab Sample ID: LCS 500-828931/2-A**  
**Matrix: Water**  
**Analysis Batch: 829219**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 828931**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				
Antimony	0.500	0.513		mg/L		103	80 - 120
Arsenic	0.100	0.0979		mg/L		98	80 - 120
Barium	0.500	0.492		mg/L		98	80 - 120
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0496		mg/L		99	80 - 120
Calcium	10.0	9.14		mg/L		91	80 - 120
Chromium	0.200	0.197		mg/L		98	80 - 120
Cobalt	0.500	0.543		mg/L		109	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	0.991		mg/L		99	80 - 120
Selenium	0.100	0.0976		mg/L		98	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

**Lab Sample ID: 500-272580-1 MS**  
**Matrix: Water**  
**Analysis Batch: 829219**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 828931**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Antimony	<0.0030		0.500	0.515		mg/L		103	75 - 125
Arsenic	0.015		0.100	0.109		mg/L		94	75 - 125
Barium	0.027		0.500	0.513		mg/L		97	75 - 125
Beryllium	<0.0010		0.0500	0.0493		mg/L		99	75 - 125
Boron	1.8		1.00	2.72		mg/L		93	75 - 125
Cadmium	<0.00050		0.0500	0.0490		mg/L		98	75 - 125
Calcium	45		10.0	53.9	4	mg/L		85	75 - 125
Chromium	<0.0050		0.200	0.192		mg/L		96	75 - 125
Cobalt	<0.0010		0.500	0.527		mg/L		105	75 - 125

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

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

**Lab Sample ID: 500-272580-1 MS**  
**Matrix: Water**  
**Analysis Batch: 829219**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 828931**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Lead	<0.00050		0.100	0.0988		mg/L		99	75 - 125	
Lithium	<0.010		0.100	0.0997		mg/L		97	75 - 125	
Molybdenum	0.027		1.00	1.03		mg/L		100	75 - 125	
Selenium	<0.0025		0.100	0.0945		mg/L		93	75 - 125	
Thallium	<0.0020		0.100	0.0999		mg/L		100	75 - 125	

**Lab Sample ID: 500-272580-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 829219**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 828931**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
Antimony	<0.0030		0.500	0.502		mg/L		100	75 - 125	2	20	
Arsenic	0.015		0.100	0.108		mg/L		93	75 - 125	1	20	
Barium	0.027		0.500	0.502		mg/L		95	75 - 125	2	20	
Beryllium	<0.0010		0.0500	0.0461		mg/L		92	75 - 125	7	20	
Boron	1.8		1.00	2.66		mg/L		87	75 - 125	2	20	
Cadmium	<0.00050		0.0500	0.0482		mg/L		96	75 - 125	2	20	
Calcium	45		10.0	52.7	4	mg/L		72	75 - 125	2	20	
Chromium	<0.0050		0.200	0.187		mg/L		93	75 - 125	3	20	
Cobalt	<0.0010		0.500	0.512		mg/L		102	75 - 125	3	20	
Lead	<0.00050		0.100	0.0965		mg/L		96	75 - 125	2	20	
Lithium	<0.010		0.100	0.0983		mg/L		96	75 - 125	1	20	
Molybdenum	0.027		1.00	0.997		mg/L		97	75 - 125	3	20	
Selenium	<0.0025		0.100	0.0905		mg/L		89	75 - 125	4	20	
Thallium	<0.0020		0.100	0.0974		mg/L		97	75 - 125	3	20	

**Lab Sample ID: 500-272580-1 DU**  
**Matrix: Water**  
**Analysis Batch: 829219**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 828931**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.015		0.0153		mg/L		1	20
Barium	0.027		0.0268		mg/L		0.9	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	1.8		1.77		mg/L		1	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	45		45.6		mg/L		0.2	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Lithium	<0.010		<0.010		mg/L		NC	20
Molybdenum	0.027		0.0270		mg/L		0.7	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

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

**Lab Sample ID: MB 500-829324/1-A**  
**Matrix: Water**  
**Analysis Batch: 830406**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 829324**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		08/08/25 14:16	08/15/25 13:06	1
Arsenic	<0.0010		0.0010		mg/L		08/08/25 14:16	08/15/25 13:06	1
Barium	<0.0025		0.0025		mg/L		08/08/25 14:16	08/15/25 13:06	1
Beryllium	<0.0010	^1+	0.0010		mg/L		08/08/25 14:16	08/15/25 13:06	1
Cadmium	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 13:06	1
Calcium	<0.20		0.20		mg/L		08/08/25 14:16	08/15/25 13:06	1
Chromium	<0.0050		0.0050		mg/L		08/08/25 14:16	08/15/25 13:06	1
Cobalt	<0.0010		0.0010		mg/L		08/08/25 14:16	08/15/25 13:06	1
Lead	<0.00050		0.00050		mg/L		08/08/25 14:16	08/15/25 13:06	1
Lithium	<0.010		0.010		mg/L		08/08/25 14:16	08/15/25 13:06	1
Molybdenum	<0.0050		0.0050		mg/L		08/08/25 14:16	08/15/25 13:06	1
Selenium	<0.0025		0.0025		mg/L		08/08/25 14:16	08/15/25 13:06	1
Thallium	<0.0020		0.0020		mg/L		08/08/25 14:16	08/15/25 13:06	1

**Lab Sample ID: MB 500-829324/1-A**  
**Matrix: Water**  
**Analysis Batch: 830559**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 829324**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		08/08/25 14:16	08/18/25 13:19	1

**Lab Sample ID: LCS 500-829324/2-A**  
**Matrix: Water**  
**Analysis Batch: 830406**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 829324**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.100		mg/L		100	80 - 120
Barium	2.00	2.14		mg/L		107	80 - 120
Beryllium	0.0500	0.0512	^1+	mg/L		102	80 - 120
Cadmium	0.0500	0.0505		mg/L		101	80 - 120
Calcium	10.0	8.40		mg/L		84	80 - 120
Chromium	0.200	0.196		mg/L		98	80 - 120
Cobalt	0.500	0.505		mg/L		101	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Lithium	0.500	0.497		mg/L		99	80 - 120
Molybdenum	1.00	0.993		mg/L		99	80 - 120
Selenium	0.100	0.0975		mg/L		97	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

**Lab Sample ID: LCS 500-829324/2-A**  
**Matrix: Water**  
**Analysis Batch: 830559**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 829324**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-829880/12-A**  
**Matrix: Water**  
**Analysis Batch: 830084**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 829880**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/13/25 10:05	08/14/25 08:36	1

**Lab Sample ID: LCS 500-829880/13-A**  
**Matrix: Water**  
**Analysis Batch: 830084**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 829880**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00209		mg/L		105	80 - 120

**Lab Sample ID: 500-272580-2 MS**  
**Matrix: Water**  
**Analysis Batch: 830084**

**Client Sample ID: MW-02**  
**Prep Type: Total/NA**  
**Prep Batch: 829880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125

**Lab Sample ID: 500-272580-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 830084**

**Client Sample ID: MW-02**  
**Prep Type: Total/NA**  
**Prep Batch: 829880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000977		mg/L		98	75 - 125	2	20

**Lab Sample ID: 500-272580-2 DU**  
**Matrix: Water**  
**Analysis Batch: 830084**

**Client Sample ID: MW-02**  
**Prep Type: Total/NA**  
**Prep Batch: 829880**

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

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

**Lab Sample ID: MB 500-828805/1**  
**Matrix: Water**  
**Analysis Batch: 828805**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			08/06/25 07:46	1

**Lab Sample ID: LCS 500-828805/2**  
**Matrix: Water**  
**Analysis Batch: 828805**

**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	262		mg/L		105	80 - 120

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

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

Lab Sample ID: MB 500-829245/1  
Matrix: Water  
Analysis Batch: 829245

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			08/08/25 08:36	1

Lab Sample ID: LCS 500-829245/2  
Matrix: Water  
Analysis Batch: 829245

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	248		mg/L		99	80 - 120

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

Lab Sample ID: MB 500-828984/16  
Matrix: Water  
Analysis Batch: 828984

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/06/25 14:39	1

Lab Sample ID: MB 500-828984/63  
Matrix: Water  
Analysis Batch: 828984

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/06/25 15:52	1

Lab Sample ID: LCS 500-828984/17  
Matrix: Water  
Analysis Batch: 828984

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	19.8		mg/L		99	85 - 115

Lab Sample ID: LCS 500-828984/64  
Matrix: Water  
Analysis Batch: 828984

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		101	85 - 115

Lab Sample ID: 500-272580-1 MS  
Matrix: Water  
Analysis Batch: 828984

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	73	F1	20.0	91.6		mg/L		91	75 - 125

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

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

**Lab Sample ID: 500-272580-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 828984**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	73	F1	20.0	90.9		mg/L		88	75 - 125	1	20

**Lab Sample ID: 500-272580-4 MS**  
**Matrix: Water**  
**Analysis Batch: 828984**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	75	F1	20.0	94.3		mg/L		97	75 - 125

**Lab Sample ID: 500-272580-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 828984**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	75	F1	20.0	92.9		mg/L		90	75 - 125	1	20

**Lab Sample ID: MB 500-829472/16**  
**Matrix: Water**  
**Analysis Batch: 829472**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/11/25 08:48	1

**Lab Sample ID: MB 500-829472/67**  
**Matrix: Water**  
**Analysis Batch: 829472**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/11/25 09:34	1

**Lab Sample ID: LCS 500-829472/17**  
**Matrix: Water**  
**Analysis Batch: 829472**

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

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

**Lab Sample ID: LCS 500-829472/68**  
**Matrix: Water**  
**Analysis Batch: 829472**

**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	19.8		mg/L		99	85 - 115

**Lab Sample ID: 500-272580-7 MS**  
**Matrix: Water**  
**Analysis Batch: 829472**

**Client Sample ID: MW-11**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	67	F1	20.0	84.5		mg/L		89	75 - 125

Eurofins Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

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

Lab Sample ID: 500-272580-7 MSD  
Matrix: Water  
Analysis Batch: 829472

Client Sample ID: MW-11  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67	F1	20.0	83.2		mg/L		83	75 - 125	2	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-829583/61  
Matrix: Water  
Analysis Batch: 829583

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			08/11/25 16:16	1

Lab Sample ID: MB 500-829583/89  
Matrix: Water  
Analysis Batch: 829583

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			08/11/25 18:26	1

Lab Sample ID: LCS 500-829583/62  
Matrix: Water  
Analysis Batch: 829583

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	9.33		mg/L		93	90 - 119

Lab Sample ID: LCS 500-829583/90  
Matrix: Water  
Analysis Batch: 829583

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	9.44		mg/L		94	90 - 119

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

Lab Sample ID: MB 500-829394/58  
Matrix: Water  
Analysis Batch: 829394

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			08/10/25 12:26	1

Lab Sample ID: LCS 500-829394/59  
Matrix: Water  
Analysis Batch: 829394

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.9		mg/L		105	88 - 123





ORIGIN ID: FEPA (262) 278-1621

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 04AUG25  
ACTWTG: 68.55 LB  
CAD: 6994085/SSFE2621  
DIMS: 26x14x14 IN

BILL THIRD PARTY

Part # 1562978466/EPDVA22EXP 05/26

TO

EUROFINS CHICAGO  
18410 CROSSING DR STE E

9.7 → 4 →



TINLEY PARK IL 60487

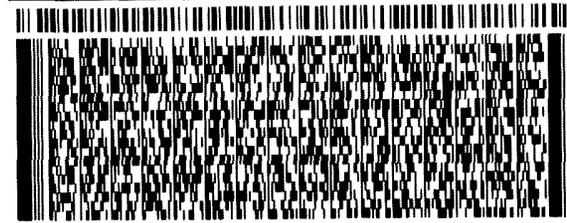
(708) 634-6200

REF:

500-272580 Waybi

INV:  
PO:

DEPT:



FedEx  
Express



AN10229050526527

2 of 3

MPS# 3917 6140 4478  
0263

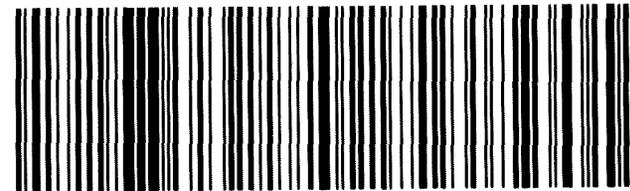
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0201

TUE - 05 AUG 10:30A  
PRIORITY OVERNIGHT

79 JOTA

AHS  
60487  
IL-US ORD



ORIGIN ID: FEPA (262) 278-1621

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 05AUG25  
ACTWGT: 64.15 LB  
CAD: 6994084/SSFE2621  
DIMS: 26x14x13 IN

BILL THIRD PARTY

Part # 15629244800R020929EXP 05/26

TO

EUROFINS CHICAGO *30-28*  
18410 CROSSING DR STE E

TINLEY PARK IL 60487

(708) 634-6200  
INU:  
PO:

REF:

DEPT:



500-272580 Waybi  
**Ex**  
Express



AN110290920859ZT

1 of 3

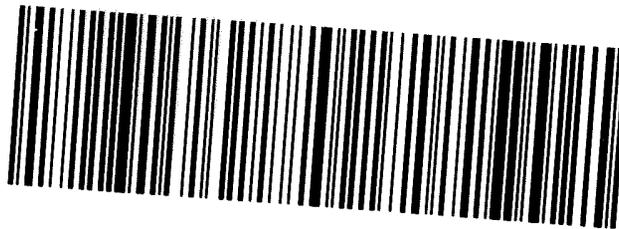
TRK# 3918 0729 7784  
0201  
## MASTER ##

**79 JOTA**

WED - 06 AUG 10:30A  
PRIORITY OVERNIGHT

AHS  
60487

IL-US ORD



1  
2  
3  
4  
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12  
13



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-272580-1

**Login Number: 272580**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Knox, Angel**

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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	9.5,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-272580-1**

Date Collected: 08/04/25 11:33

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			828931	MS	EET CHI	08/06/25 13:35 - 08/06/25 19:35 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	829219	RN	EET CHI	08/07/25 12:12
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:01
Total/NA	Analysis	SM 2540C		1	828805	CLB	EET CHI	08/06/25 08:09
Total/NA	Analysis	SM 4500 CI- E		2	828984	TR	EET CHI	08/06/25 15:15
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 16:44
Total/NA	Analysis	SM 4500 SO4 E		5	829394	TR	EET CHI	08/10/25 13:19

**Client Sample ID: MW-02**

**Lab Sample ID: 500-272580-2**

Date Collected: 08/04/25 12:56

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			828931	MS	EET CHI	08/06/25 13:35 - 08/06/25 19:35 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	829219	RN	EET CHI	08/07/25 12:24
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:03
Total/NA	Analysis	SM 2540C		1	828805	CLB	EET CHI	08/06/25 08:11
Total/NA	Analysis	SM 4500 CI- E		2	828984	TR	EET CHI	08/06/25 16:37
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 16:59
Total/NA	Analysis	SM 4500 SO4 E		5	829394	TR	EET CHI	08/10/25 12:49

**Client Sample ID: MW-03**

**Lab Sample ID: 500-272580-3**

Date Collected: 08/04/25 14:04

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			828931	MS	EET CHI	08/06/25 13:35 - 08/06/25 19:35 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	829219	RN	EET CHI	08/07/25 12:26
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:10
Total/NA	Analysis	SM 2540C		1	828805	CLB	EET CHI	08/06/25 08:14
Total/NA	Analysis	SM 4500 CI- E		2	828984	TR	EET CHI	08/06/25 16:37
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 17:06
Total/NA	Analysis	SM 4500 SO4 E		5	829394	TR	EET CHI	08/10/25 12:50

**Client Sample ID: MW-04**

**Lab Sample ID: 500-272580-4**

Date Collected: 08/04/25 15:26

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			828931	MS	EET CHI	08/06/25 13:35 - 08/06/25 19:35 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	829219	RN	EET CHI	08/07/25 12:28

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# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

## Client Sample ID: MW-04

Lab Sample ID: 500-272580-4

Date Collected: 08/04/25 15:26

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:12
Total/NA	Analysis	SM 2540C		1	828805	CLB	EET CHI	08/06/25 08:17
Total/NA	Analysis	SM 4500 Cl- E		2	828984	TR	EET CHI	08/06/25 16:37
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 17:12
Total/NA	Analysis	SM 4500 SO4 E		5	829394	TR	EET CHI	08/10/25 12:51

## Client Sample ID: Duplicate

Lab Sample ID: 500-272580-5

Date Collected: 08/04/25 00:00

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			828931	MS	EET CHI	08/06/25 13:35 - 08/06/25 19:35 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	829219	RN	EET CHI	08/07/25 12:40
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:14
Total/NA	Analysis	SM 2540C		1	828805	CLB	EET CHI	08/06/25 08:19
Total/NA	Analysis	SM 4500 Cl- E		2	828984	TR	EET CHI	08/06/25 16:36
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 17:19
Total/NA	Analysis	SM 4500 SO4 E		5	829394	TR	EET CHI	08/10/25 13:19

## Client Sample ID: MW-09

Lab Sample ID: 500-272580-6

Date Collected: 08/05/25 10:54

Matrix: Water

Date Received: 08/06/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			829324	MS	EET CHI	08/08/25 14:16 - 08/08/25 20:16 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830406	RN	EET CHI	08/15/25 14:11
Total Recoverable	Prep	3005A			829324	MS	EET CHI	08/08/25 14:16 - 08/08/25 20:16 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	830559	RN	EET CHI	08/18/25 15:27
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:16
Total/NA	Analysis	SM 2540C		1	829245	CLB	EET CHI	08/08/25 09:01
Total/NA	Analysis	SM 4500 Cl- E		10	829472	TR	EET CHI	08/11/25 09:09
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 20:29
Total/NA	Analysis	SM 4500 SO4 E		5	829394	TR	EET CHI	08/10/25 12:51

## Client Sample ID: MW-11

Lab Sample ID: 500-272580-7

Date Collected: 08/05/25 13:46

Matrix: Water

Date Received: 08/06/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			829324	MS	EET CHI	08/08/25 14:16 - 08/08/25 20:16 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830406	RN	EET CHI	08/15/25 14:18

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# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-272580-7**

**Date Collected: 08/05/25 13:46**

**Matrix: Water**

**Date Received: 08/06/25 09:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			829324	MS	EET CHI	08/08/25 14:16 - 08/08/25 20:16 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830559	RN	EET CHI	08/18/25 15:30
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:21
Total/NA	Analysis	SM 2540C		1	829245	CLB	EET CHI	08/08/25 09:04
Total/NA	Analysis	SM 4500 Cl- E		2	829472	TR	EET CHI	08/11/25 09:09
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 20:36
Total/NA	Analysis	SM 4500 SO4 E		1	829394	TR	EET CHI	08/10/25 12:29

**Client Sample ID: MW-14**

**Lab Sample ID: 500-272580-8**

**Date Collected: 08/05/25 12:13**

**Matrix: Water**

**Date Received: 08/06/25 09:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			829324	MS	EET CHI	08/08/25 14:16 - 08/08/25 20:16 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830406	RN	EET CHI	08/15/25 14:21
Total Recoverable	Prep	3005A			829324	MS	EET CHI	08/08/25 14:16 - 08/08/25 20:16 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830559	RN	EET CHI	08/18/25 15:32
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:23
Total/NA	Analysis	SM 2540C		1	829245	CLB	EET CHI	08/08/25 09:07
Total/NA	Analysis	SM 4500 Cl- E		1	829472	TR	EET CHI	08/11/25 09:34
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 20:43
Total/NA	Analysis	SM 4500 SO4 E		1	829394	TR	EET CHI	08/10/25 12:29

**Client Sample ID: MW-16**

**Lab Sample ID: 500-272580-9**

**Date Collected: 08/05/25 10:00**

**Matrix: Water**

**Date Received: 08/06/25 09:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			829324	MS	EET CHI	08/08/25 14:16 - 08/08/25 20:16 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	830406	RN	EET CHI	08/15/25 14:23
Total Recoverable	Prep	3005A			829324	MS	EET CHI	08/08/25 14:16 - 08/08/25 20:16 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	830559	RN	EET CHI	08/18/25 15:35
Total/NA	Prep	7470A			829880	MJG	EET CHI	08/13/25 10:05 - 08/13/25 12:05 <sup>1</sup>
Total/NA	Analysis	7470A		1	830084	MJG	EET CHI	08/14/25 09:25
Total/NA	Analysis	SM 2540C		1	829245	CLB	EET CHI	08/08/25 09:09
Total/NA	Analysis	SM 4500 Cl- E		5	829472	TR	EET CHI	08/11/25 10:01
Total/NA	Analysis	SM 4500 F C		1	829583	AC	EET CHI	08/11/25 20:49
Total/NA	Analysis	SM 4500 SO4 E		10	829394	TR	EET CHI	08/10/25 12:52

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

**Laboratory References:**

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

Eurofins Chicago

# Accreditation/Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR

Job ID: 500-272580-1

## Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-26

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Richard Gnat  
KPRG and Associates, Inc.  
14665 West Lisbon Road,  
Suite 1A  
Brookfield, Wisconsin 53005

Generated 09/09/25 13:36:07

## JOB DESCRIPTION

Waukegan CCR (RAD)  
Quarterly Waukegan CCR

## JOB NUMBER

500-272580-2

# Eurofins Chicago

## Job Notes

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

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

## Authorization



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	5
Sample Summary . . . . .	6
Client Sample Results . . . . .	7
Definitions . . . . .	16
QC Association . . . . .	17
QC Sample Results . . . . .	18
Chain of Custody . . . . .	19
Receipt Checklists . . . . .	25
Chronicle . . . . .	28
Certification Summary . . . . .	31
Tracer Carrier Summary . . . . .	32

# Case Narrative

Client: KPRG and Associates, Inc.  
Project: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Job ID: 500-272580-2**

**Eurofins Chicago**

## Job Narrative 500-272580-2

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

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

### Receipt

The samples were received on 8/5/2025 9:05 AM and 8/6/2025 9:05 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 2.8°C and 9.5°C.

### Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: water present in cooler indicating melted ice. This does not meet regulatory requirements.

### Gas Flow Proportional Counter

Method 904.0: Radium-228 batch 731124

The LCS recovered at (132%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (68%-154%) per method requirements. The LCS passes, no further action is required. (LCS 160-731124/2-A)

Method 904.0: Radium-228 batch 731124

The detection goal was not met for the following sample due to the reduced sample volume in prep attributed to the presence of matrix interferences: MW-14 (500-272580-8). Analytical results are reported with the detection limit achieved.

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: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

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: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-272580-1	MW-01	Water	08/04/25 11:33	08/05/25 09:05	Illinois
500-272580-2	MW-02	Water	08/04/25 12:56	08/05/25 09:05	Illinois
500-272580-3	MW-03	Water	08/04/25 14:04	08/05/25 09:05	Illinois
500-272580-4	MW-04	Water	08/04/25 15:26	08/05/25 09:05	Illinois
500-272580-5	Duplicate	Water	08/04/25 00:00	08/05/25 09:05	Illinois
500-272580-6	MW-09	Water	08/05/25 10:54	08/06/25 09:05	Illinois
500-272580-7	MW-11	Water	08/05/25 13:46	08/06/25 09:05	Illinois
500-272580-8	MW-14	Water	08/05/25 12:13	08/06/25 09:05	Illinois
500-272580-9	MW-16	Water	08/05/25 10:00	08/06/25 09:05	Illinois

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# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-01**

**Lab Sample ID: 500-272580-1**

Date Collected: 08/04/25 11:33

Matrix: Water

Date Received: 08/05/25 09:05

**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	<0.324	U	0.184	0.184	1.00	0.324	pCi/L	08/08/25 08:14	09/08/25 15:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					08/08/25 08:14	09/08/25 15:40	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	<0.622	U	0.398	0.400	1.00	0.622	pCi/L	08/08/25 08:23	09/08/25 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					08/08/25 08:23	09/08/25 11:54	1
Y Carrier	74.0		30 - 110					08/08/25 08:23	09/08/25 11:54	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	<0.622	U	0.438	0.440	5.00	0.622	pCi/L		09/09/25 11:30	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-02**

**Lab Sample ID: 500-272580-2**

Date Collected: 08/04/25 12:56

Matrix: Water

Date Received: 08/05/25 09:05

**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	<0.380	U	0.229	0.230	1.00	0.380	pCi/L	08/08/25 08:14	09/08/25 15:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					08/08/25 08:14	09/08/25 15:40	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	<0.669	U	0.389	0.390	1.00	0.669	pCi/L	08/08/25 08:23	09/08/25 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.8		30 - 110					08/08/25 08:23	09/08/25 11:54	1
Y Carrier	72.9		30 - 110					08/08/25 08:23	09/08/25 11:54	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	<0.669	U	0.451	0.453	5.00	0.669	pCi/L		09/09/25 11:30	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-03**

**Lab Sample ID: 500-272580-3**

Date Collected: 08/04/25 14:04

Matrix: Water

Date Received: 08/05/25 09:05

**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	<0.370	U	0.224	0.224	1.00	0.370	pCi/L	08/08/25 08:14	09/08/25 15:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					08/08/25 08:14	09/08/25 15:41	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	0.685		0.417	0.422	1.00	0.612	pCi/L	08/08/25 08:23	09/08/25 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110					08/08/25 08:23	09/08/25 11:54	1
Y Carrier	73.3		30 - 110					08/08/25 08:23	09/08/25 11:54	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	0.866		0.473	0.478	5.00	0.612	pCi/L		09/09/25 11:30	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-04**

**Lab Sample ID: 500-272580-4**

Date Collected: 08/04/25 15:26

Matrix: Water

Date Received: 08/05/25 09:05

**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	<0.415	U	0.215	0.215	1.00	0.415	pCi/L	08/08/25 08:14	09/08/25 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/08/25 08:14	09/08/25 17:33	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	<0.618	U	0.390	0.392	1.00	0.618	pCi/L	08/08/25 08:23	09/08/25 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					08/08/25 08:23	09/08/25 11:54	1
Y Carrier	71.4		30 - 110					08/08/25 08:23	09/08/25 11:54	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	<0.618	U	0.445	0.447	5.00	0.618	pCi/L		09/09/25 11:30	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-272580-5**

Date Collected: 08/04/25 00:00

Matrix: Water

Date Received: 08/05/25 09:05

**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	<0.380	U	0.233	0.234	1.00	0.380	pCi/L	08/08/25 08:14	09/08/25 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					08/08/25 08:14	09/08/25 17:33	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	<0.679	U	0.407	0.408	1.00	0.679	pCi/L	08/08/25 08:23	09/08/25 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		30 - 110					08/08/25 08:23	09/08/25 11:54	1
Y Carrier	72.5		30 - 110					08/08/25 08:23	09/08/25 11:54	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	<0.679	U	0.469	0.470	5.00	0.679	pCi/L		09/09/25 11:30	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-09**

**Lab Sample ID: 500-272580-6**

Date Collected: 08/05/25 10:54

Matrix: Water

Date Received: 08/06/25 09:05

**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	<0.392	U	0.248	0.249	1.00	0.392	pCi/L	08/08/25 08:14	09/08/25 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					08/08/25 08:14	09/08/25 17:33	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.29		0.500	0.514	1.00	0.638	pCi/L	08/08/25 08:23	09/08/25 11:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					08/08/25 08:23	09/08/25 11:54	1
Y Carrier	72.9		30 - 110					08/08/25 08:23	09/08/25 11:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.54		0.558	0.571	5.00	0.638	pCi/L		09/09/25 11:30	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-11**

**Lab Sample ID: 500-272580-7**

Date Collected: 08/05/25 13:46

Matrix: Water

Date Received: 08/06/25 09:05

**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	0.675		0.399	0.403	1.00	0.545	pCi/L	08/08/25 08:14	09/08/25 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					08/08/25 08:14	09/08/25 17:33	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.603	0.618	1.00	0.785	pCi/L	08/08/25 08:23	09/08/25 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					08/08/25 08:23	09/08/25 11:55	1
Y Carrier	75.9		30 - 110					08/08/25 08:23	09/08/25 11:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.12		0.723	0.738	5.00	0.785	pCi/L		09/09/25 11:30	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-14**

**Lab Sample ID: 500-272580-8**

Date Collected: 08/05/25 12:13

Matrix: Water

Date Received: 08/06/25 09:05

**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	<0.760	U	0.453	0.454	1.00	0.760	pCi/L	08/08/25 08:14	09/08/25 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		30 - 110					08/08/25 08:14	09/08/25 17:33	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<1.38	U G	0.858	0.861	1.00	1.38	pCi/L	08/08/25 08:23	09/08/25 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		30 - 110					08/08/25 08:23	09/08/25 11:55	1
Y Carrier	70.7		30 - 110					08/08/25 08:23	09/08/25 11:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<1.38	U	0.970	0.973	5.00	1.38	pCi/L		09/09/25 11:30	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-16**

**Lab Sample ID: 500-272580-9**

Date Collected: 08/05/25 10:00

Matrix: Water

Date Received: 08/06/25 09:05

**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	<0.318	U	0.193	0.193	1.00	0.318	pCi/L	08/08/25 08:14	09/08/25 17:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/08/25 08:14	09/08/25 17:33	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	0.641		0.417	0.421	1.00	0.623	pCi/L	08/08/25 08:23	09/08/25 11:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/08/25 08:23	09/08/25 11:55	1
Y Carrier	71.8		30 - 110					08/08/25 08:23	09/08/25 11:55	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	0.795		0.459	0.463	5.00	0.623	pCi/L		09/09/25 11:30	1

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

## Qualifiers

### Rad

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

## Rad

### Prep Batch: 731121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total/NA	Water	PrecSep-21	
500-272580-2	MW-02	Total/NA	Water	PrecSep-21	
500-272580-3	MW-03	Total/NA	Water	PrecSep-21	
500-272580-4	MW-04	Total/NA	Water	PrecSep-21	
500-272580-5	Duplicate	Total/NA	Water	PrecSep-21	
500-272580-6	MW-09	Total/NA	Water	PrecSep-21	
500-272580-7	MW-11	Total/NA	Water	PrecSep-21	
500-272580-8	MW-14	Total/NA	Water	PrecSep-21	
500-272580-9	MW-16	Total/NA	Water	PrecSep-21	
MB 160-731121/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-731121/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 731124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-272580-1	MW-01	Total/NA	Water	PrecSep_0	
500-272580-2	MW-02	Total/NA	Water	PrecSep_0	
500-272580-3	MW-03	Total/NA	Water	PrecSep_0	
500-272580-4	MW-04	Total/NA	Water	PrecSep_0	
500-272580-5	Duplicate	Total/NA	Water	PrecSep_0	
500-272580-6	MW-09	Total/NA	Water	PrecSep_0	
500-272580-7	MW-11	Total/NA	Water	PrecSep_0	
500-272580-8	MW-14	Total/NA	Water	PrecSep_0	
500-272580-9	MW-16	Total/NA	Water	PrecSep_0	
MB 160-731124/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-731124/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

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

**Lab Sample ID: MB 160-731121/1-A**  
**Matrix: Water**  
**Analysis Batch: 735047**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 731121**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.357	U	0.217	0.218	1.00	0.357	pCi/L	08/08/25 08:14	09/08/25 15:40	1
Carrier	MB %Yield	MB Qualifier	Limits			Prepared	Analyzed		Dil Fac	
Ba Carrier	91.6		30 - 110			08/08/25 08:14	09/08/25 15:40		1	

**Lab Sample ID: LCS 160-731121/2-A**  
**Matrix: Water**  
**Analysis Batch: 735047**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 731121**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.57	10.11		1.35	1.00	0.388	pCi/L	106	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	85.6		30 - 110						

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

**Lab Sample ID: MB 160-731124/1-A**  
**Matrix: Water**  
**Analysis Batch: 735046**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 731124**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.646	U	0.388	0.389	1.00	0.646	pCi/L	08/08/25 08:23	09/08/25 11:54	1
Carrier	MB %Yield	MB Qualifier	Limits			Prepared	Analyzed		Dil Fac	
Ba Carrier	91.6		30 - 110			08/08/25 08:23	09/08/25 11:54		1	
Y Carrier	69.5		30 - 110			08/08/25 08:23	09/08/25 11:54		1	

**Lab Sample ID: LCS 160-731124/2-A**  
**Matrix: Water**  
**Analysis Batch: 735046**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 731124**

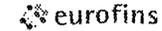
Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	9.09	11.98		1.62	1.00	0.681	pCi/L	132	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	85.6		30 - 110						
Y Carrier	72.1		30 - 110						

**Eurofins Chicago**

18410 Crossing Drive Suite E  
 Tinley Park IL 60487  
 Phone 708-534-5200 Fax: 708-534-5211

**Chain of Custody Record**

**MKE 232**



18410 Crossing Drive Suite E

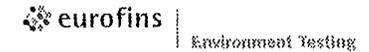
<b>Client Information</b>		Sampler <i>Kaelyn Sperle</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No 500-138952-44027 1							
Client Contact Mitchel Dolan <i>Kaelyn Sperle</i>		Phone <i>262-278-1621</i>		E-Mail Diana.Mockler@et.eurofinsus.com		State of Origin <i>IL</i>		Page Page 1 of 1							
Company KPRG and Associates Inc.		PWSID:		<b>Analysis Requested</b>						Job #: <i>500-272580</i>					
Address 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>		 <p>500-272580 COC</p>						Preservation Codes D HNO3 N None					
City Brookfield		TAT Requested (days) <i>standard</i>								Other					
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No													
Phone 262-781-0475(Tel)		PO #: 4502188389													
Email mitchel@kprginc.com <i>kaelyns@kprginc.com</i>		WO #:													
Project Name: Waukegan CCR Event Desc Quarterly Waukegan CCR		Project #: 50011597													
Site Illinois		SSOW#:													
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air, DW=Drinking Water)		Field Filtered Sample (Yes or No)		Total Numbers of Containers		Special Instructions/Note:	
										903.0, 904.0					
										6010C, 6020A, 7470A					
										2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E					
1 MW-01		8/4/25		1133		G		Water		N		N		X X X	
2 MW-02		8/4/25		1256		↓		Water		N		N			
3 MW-03		8/4/25		1404		↓		Water		N		N			
4 MW-04		8/4/25		1526		↓		Water		N		N			
<del>MW-05</del>								Water							
<del>MW-11</del>								Water							
<del>MW-14</del>								Water							
<del>MW-16</del>								Water							
5 Duplicate		8/4/25		-		G		Water		N		N			
<b>Possible Hazard Identification</b>										<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological										<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)										Special Instructions/QC Requirements					
Empty Kit Relinquished by:				Date				Time				Method of Shipmen			
Relinquished by: <i>Kaelyn Orule</i>				Date/Time: <i>8/4/25/1645</i>				Company <i>KPRG</i>				Received by: <i>FedEx</i>			
Relinquished by:				Date/Time:				Company:				Date/Time: <i>8/4/25/1645</i>			
Relinquished by:				Date/Time:				Company:				Date/Time: <i>08/05/25 0905</i>			
Relinquished by:				Date/Time:				Company:				Date/Time:			
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks. <i>97 → 9.5 489f</i>											

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18410 Crossing Drive Suite E  
 Tinley Park, IL 60487  
 Phone 708-534-5200 Fax 708-534-5211

**Chain of Custody Record**

**MKE 232**



<b>Client Information</b>		Sampler <i>Kaelyn Sperle</i>		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-138952-44027 1													
Client Contact: Mitchel Dolan <i>Kaelyn Sperle</i>		Phone: <i>262-278-1621</i>		E-Mail Diana.Mockler@et.eurofinsus.com		State of Origin <i>IL</i>		Page Page 1 of 1													
Company KPRG and Associates, Inc.		PWSID		<b>Analysis Requested</b>						Job # <i>300-272580</i>											
Address 14665 West Lisbon Road, Suite 1A		Due Date Requested: <i>Standard</i>		<table border="1"> <tr> <td>PO #</td> <td>4502188389</td> </tr> <tr> <td>WO #</td> <td></td> </tr> <tr> <td>Project #</td> <td>50011597</td> </tr> <tr> <td>SSOW#</td> <td></td> </tr> <tr> <td>Matrix</td> <td>(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)</td> </tr> </table>						PO #	4502188389	WO #		Project #	50011597	SSOW#		Matrix	(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Preservation Codes D - HNO3 N - None	
PO #	4502188389																				
WO #																					
Project #	50011597																				
SSOW#																					
Matrix	(W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)																				
City Brookfield		TAT Requested (days) <i>standard</i>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Other:															
State, Zip: WI, 53005		500-272580 COC		Filter Filtered Sample (Yes or No)		Total Number of Containers															
Phone 262-781-0475(Tel)		Project Name: Waukegan CCR Event Desc. Quarterly Waukegan CCR		903.0, 904.0		6010C, 6020A, 7470A															
Email: mitcheld@kprginc.com <i>kaelyn@kprginc.com</i>		Site Illinois		2540C, 4500_F_C, SM4500_CI_E, SM4500_S04_E																	
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix		Special Instructions/Note:											
MW-01								Water													
MW-02								Water													
MW-03								Water													
MW-04								Water													
6 7 8 9 MW-09		<i>8/5/25</i>		<i>1054</i>		<i>G</i>		Water		<i>NNXX</i>											
MW-11		<i>8/5/25</i>		<i>1346</i>		<i>↓</i>		Water		<i>NNXX</i>											
MW-14		<i>8/5/25</i>		<i>1213</i>		<i>↓</i>		Water		<i>NNXX</i>											
MW-16		<i>8/5/25</i>		<i>1000</i>		<i>↓</i>		Water		<i>NNXX</i>											
Duplicate								Water													
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>															
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements															
Empty Kit Relinquished by:		Date		Time		Method of Shipment.															
Relinquished by: <i>Kaelyn Sperle</i>		Date/Time: <i>8/5/25/1745</i>		Company <i>KPRG</i>		Received by: <i>FedEx</i>		Date/Time <i>8/5/25/1745</i>		Company <i>FedEx</i>											
Relinquished by:		Date/Time:		Company		Received by: <i>Law</i>		Date/Time <i>8/6/25 0905</i>		Company <i>FEDEX</i>											
Relinquished by:		Date/Time:		Company		Received by:		Date/Time:		Company:											
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks. <i>3.0 → 28</i>																	



ORIGIN ID: FEPA (262) 278-1621

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 04AUG25  
ACTWTG: 68.55 LB  
CAD: 6994085/SSFE2621  
DIMS: 26x14x14 IN

BILL THIRD PARTY

Part # 1562978466/EPDVA22EXP 05/26

TO

EUROFINS CHICAGO  
18410 CROSSING DR STE E

9.7 → 4 →



TINLEY PARK IL 60487

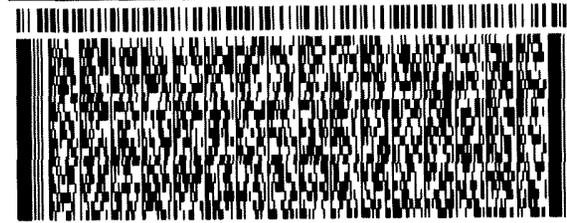
(708) 634-6200

REF:

500-272580 Waybi

INV:  
PO:

DEPT:



FedEx  
Express



AN10229050526526

2 of 3

MPS# 3917 6140 4478  
0263

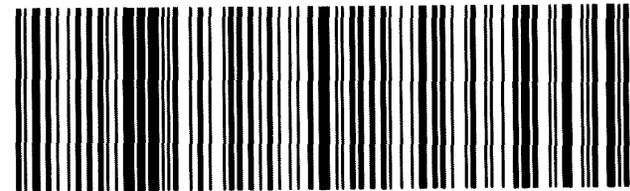
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0201

79 JOTA

TUE - 05 AUG 10:30A  
PRIORITY OVERNIGHT

AHS  
60487  
IL-US ORD



ORIGIN ID: FEPA (262) 278-1621

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 05AUG25  
ACTWGT: 64.15 LB  
CAD: 6994084/SSFE2621  
DIMS: 26x14x13 IN

BILL THIRD PARTY

Part # 15629244800R10202929EXP 05/26

TO

EUROFINS CHICAGO *30-28*  
18410 CROSSING DR STE E

TINLEY PARK IL 60487

(708) 634-6200  
INV:  
PO:

REF:

DEPT:



500-272580 Waybi  
**Ex**  
Express



AN11022910920859ZT  
J2630820859ZT

1 of 3

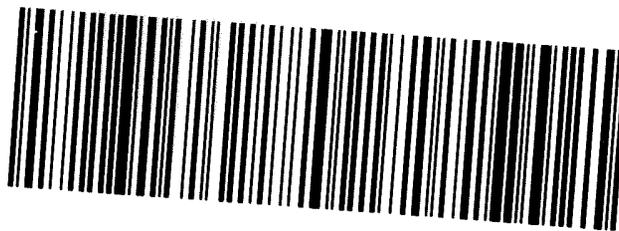
TRK# 3918 0729 7784  
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## MASTER ##

**79 JOTA**

WED - 06 AUG 10:30A  
PRIORITY OVERNIGHT

AHS  
60487

IL-US ORD

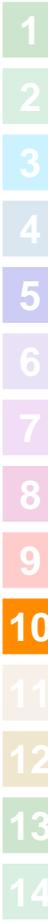


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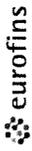
# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Mockler, Diana J	Carrier Tracking No(s): N/A	COC No: 500-209894.1
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-272580-2	Preservation Codes:
Address: 13715 Rider Trail North,		Due Date Requested: 9/9/2025		Analysis Requested:	
City: Earth City		TAT Requested (days): N/A		Total Number of Containers:	
State, Zip: MO, 63045		PO #: N/A		903.0/PreSep_21 Standard Target List	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #: N/A		904.0/PreSep_05 Standard Target List	
Email: N/A		Project #: 50011597		Ra226Ra228_GFPc	
Project Name: Waukegan CCR (RAD)		SSOW#: N/A		Perform MS/MSD (Yes or No)	
Site: NRG Midwest Generation Waukegan		Sample Date		Field Filtered Sample (Yes or No)	
		Sample Time		Preservation Code	
		Sample Type (C=Comp, G=grab)		Matrix (Water, Solid, Over Soil, etc)	
		Sample ID (Lab ID)		Special Instructions/Note:	
MW-01 (500-272580-1)		8/4/25 11:33 Central		G Water X X X	
MW-02 (500-272580-2)		8/4/25 12:56 Central		G Water X X X	
MW-03 (500-272580-3)		8/4/25 14:04 Central		G Water X X X	
MW-04 (500-272580-4)		8/4/25 15:26 Central		G Water X X X	
Duplicate (500-272580-5)		8/4/25 Central		G Water X X X	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify) _____					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: <i>John Scott</i> Date/Time: 8/5/25 1250					
Relinquished by: _____ Date/Time: _____					
Relinquished by: _____ Date/Time: _____					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No.: _____					
Cooler Temperature(s) °C and Other Remarks:					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:					
Received by: <i>Dana Worthington</i> Date/Time: 8/10/25 0820 Received by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Company: <i>EMSL</i> Company: _____ Company: _____					
Method of Shipment: _____					



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Mockler, Diana J	Carrier Tracking No(s): N/A	COC No: 500-209965.1
Client Contact: Shipping/Receiving		Phone: N/A	E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-272580-2	
Address: 13715 Rider Trail North,		Due Date Requested: 9/10/2025		Preservation Codes:	
City: Earth City		TAT Requested (days): N/A		Analysis Requested:	
State, Zip: MO, 65045		PO #: N/A		904.0/Precep_Standard Target List	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #: N/A		903.0/Precep_21 Standard Target List	
Email: N/A		Project #: 50011597		902.0/Precep_Standard Target List	
Project Name: Waukegan CCR (RAD)		SSOW #: N/A		Perform MS/MSD (Yes or No)	
Site: NRG Midwest Generation Waukegan		Sample Date		Field Filtered Sample (Yes or No)	
		Sample Time		Total Number of Containers	
		Sample Type (C=Comp, G=grab)		Special Instructions/Note:	
		Matrix (W=water, S=solid, O=wastewater, BT=tissue, AA=AK)			
		Preservation Code:			
Sample Identification - Client ID (Lab ID)		8/5/25		3	
MW-09 (500-272580-6)		10:54 Central		Batch QC must be performed (dup. spikes, etc) - no NCMS concerning limited volume;	
MW-11 (500-272580-7)		13:46 Central		Batch QC must be performed (dup. spikes, etc) - no NCMS concerning limited volume;	
MW-14 (500-272580-8)		12:13 Central		Batch QC must be performed (dup. spikes, etc) - no NCMS concerning limited volume;	
MW-16 (500-272580-9)		10:00 Central		Batch QC must be performed (dup. spikes, etc) - no NCMS concerning limited volume;	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify) _____					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: <i>Handwritten Signature</i> Date: 08/06/25 1500 Company: BETA					
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____					
Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____					
Custody Seals Intact: _____ Custody Seal No.: _____					
Cooler Temperature(s) °C and Other Remarks: _____					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements: _____					
Method of Shipment: _____					
Date: _____					
Primary Deliverable Rank: 2					
Date: _____					
Received by: <i>Handwritten Signature</i> Date: AUG 07 2025 Company: epasil					
Received by: _____ Date/Time: _____					
Received by: _____ Date/Time: _____					
Cooler Temperature(s) °C and Other Remarks: _____					

## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-272580-2

**Login Number: 272580**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Knox, Angel**

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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	9.5,2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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

## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-272580-2

**Login Number: 272580**

**List Number: 2**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 08/06/25 11:28 AM**

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

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



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-272580-2

**Login Number: 272580**

**List Number: 3**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 08/07/25 11:43 AM**

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

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



# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-01**

**Lab Sample ID: 500-272580-1**

Date Collected: 08/04/25 11:33

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735047	SWS	EET SL	09/08/25 15:40
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:54
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

**Client Sample ID: MW-02**

**Lab Sample ID: 500-272580-2**

Date Collected: 08/04/25 12:56

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735047	SWS	EET SL	09/08/25 15:40
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:54
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

**Client Sample ID: MW-03**

**Lab Sample ID: 500-272580-3**

Date Collected: 08/04/25 14:04

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735047	SWS	EET SL	09/08/25 15:41
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:54
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

**Client Sample ID: MW-04**

**Lab Sample ID: 500-272580-4**

Date Collected: 08/04/25 15:26

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735046	FLC	EET SL	09/08/25 17:33
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:54
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

## Client Sample ID: Duplicate

Lab Sample ID: 500-272580-5

Date Collected: 08/04/25 00:00

Matrix: Water

Date Received: 08/05/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735046	FLC	EET SL	09/08/25 17:33
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:54
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

## Client Sample ID: MW-09

Lab Sample ID: 500-272580-6

Date Collected: 08/05/25 10:54

Matrix: Water

Date Received: 08/06/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735046	FLC	EET SL	09/08/25 17:33
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:54
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

## Client Sample ID: MW-11

Lab Sample ID: 500-272580-7

Date Collected: 08/05/25 13:46

Matrix: Water

Date Received: 08/06/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735046	FLC	EET SL	09/08/25 17:33
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:55
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

## Client Sample ID: MW-14

Lab Sample ID: 500-272580-8

Date Collected: 08/05/25 12:13

Matrix: Water

Date Received: 08/06/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735046	FLC	EET SL	09/08/25 17:33
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:55
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

**Client Sample ID: MW-16**

**Lab Sample ID: 500-272580-9**

**Date Collected: 08/05/25 10:00**

**Matrix: Water**

**Date Received: 08/06/25 09:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			731121	JTR	EET SL	08/08/25 08:14
Total/NA	Analysis	903.0		1	735046	FLC	EET SL	09/08/25 17:33
Total/NA	Prep	PrecSep_0			731124	JTR	EET SL	08/08/25 08:23
Total/NA	Analysis	904.0		1	735046	FLC	EET SL	09/08/25 11:55
Total/NA	Analysis	Ra226_Ra228		1	735307	SCB	EET SL	09/09/25 11:30

**Laboratory References:**

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



# Accreditation/Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

## Laboratory: Eurofins St. Louis

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Tracer/Carrier Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan CCR (RAD)

Job ID: 500-272580-2

### 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)	
500-272580-1	MW-01	88.8	
500-272580-2	MW-02	89.8	
500-272580-3	MW-03	94.5	
500-272580-4	MW-04	93.5	
500-272580-5	Duplicate	91.3	
500-272580-6	MW-09	86.6	
500-272580-7	MW-11	87.8	
500-272580-8	MW-14	76.4	
500-272580-9	MW-16	94.3	
LCS 160-731121/2-A	Lab Control Sample	85.6	
MB 160-731121/1-A	Method Blank	91.6	
<b>Tracer/Carrier Legend</b>			
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)
500-272580-1	MW-01	88.8	74.0
500-272580-2	MW-02	89.8	72.9
500-272580-3	MW-03	94.5	73.3
500-272580-4	MW-04	93.5	71.4
500-272580-5	Duplicate	91.3	72.5
500-272580-6	MW-09	86.6	72.9
500-272580-7	MW-11	87.8	75.9
500-272580-8	MW-14	76.4	70.7
500-272580-9	MW-16	94.3	71.8
LCS 160-731124/2-A	Lab Control Sample	85.6	72.1
MB 160-731124/1-A	Method Blank	91.6	69.5
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			

PROJECT NAME	12313.2 - Waukegan Station		DATE	8/4/25
Sample Name	MW-01	Start Time	1114	
Condition of Well	good			
Water Level	23.00	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	6 gts	WL at Sample Time	23.10	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR, permit	Sample Time	1133	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1117	23.00	6.65	13.9	.582	2.62	236.9	9.90
1120	-	6.71	14.2	.551	0.73	236.5	9.35
1123	-	6.83	13.5	.547	0.42	234.4	8.65
1126	-	6.98	13.6	.542	0.30	230.1	8.76
1129	23.10	7.14	13.7	.538	0.26	225.7	8.42

SAMPLING NOTES:

CCR duplicate

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – Waukegan Station		DATE	8/4/25
Sample Name	MW-02	Start Time	1234	
Condition of Well	good			
Water Level	22.82	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	6 gts	WL at Sample Time	23.00	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR, permit	Sample Time	1256	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1237	22.82	7.37	18.5	.700	8.00	115.7	15.13
1240	-	7.30	14.1	.679	2.26	135.9	13.90
1243	-	7.36	13.6	.669	1.11	138.4	35.25
1246	-	7.43	13.6	.667	0.82	138.8	9.83
1249	-	7.49	13.8	.663	0.75	137.9	11.93
1252	23.00	7.57	13.7	.663	0.64	135.1	18.02

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

*KIS*

PROJECT NAME	12313.2 – Waukegan Station		DATE	8/4/25
Sample Name	MW-03	Start Time	1334	
Condition of Well	good			
Water Level	23.14	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	8gts	WL at Sample Time	<del>23.18</del>	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCR, permit	Sample Time	1404	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1339	23.14	7.65	16.8	.632	8.56	181.3	7.73
1342	-	8.87	14.1	.687	1.06	168.5	10.12
1345	-	9.48	13.6	.693	0.82	158.5	10.10
1348	-	9.68	13.7	.699	0.61	152.1	9.96
1351	-	9.84	13.8	.700	0.51	145.8	10.38
1354	-	9.93	14.2	.703	0.39	138.9	10.02
1357	-	9.99	13.7	.700	0.34	137.4	9.96
<del>1400</del>	-	10.02	13.4	.703	0.29	134.8	10.11
1403	23.18	10.00	13.7	.704	0.27	132.7	10.15

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

*KAS*



PROJECT NAME	12313.2 - Waukegan Station		DATE	8/5/25
Sample Name	MW-09	Start Time	1030	
Condition of Well	good			
Water Level	11.05	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy grayish brown	
Volume Removed	6 gts	WL at Sample Time	11.12	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR, permit (not reported)	Sample Time	1054	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1032	11.05	7.41	17.9	1.141	6.95	170.2	110.28
1035	-	7.12	14.0	1.502	0.49	-25.6	80.80
1038	-	7.02	13.9	1.411	0.21	-67.2	56.38
1041	-	7.01	13.8	1.388	0.14	-80.0	38.45
1044	-	7.00	13.7	1.399	0.10	-89.2	27.27
1047	-	6.99	13.7	1.416	0.07	-93.5	21.95
1050	11.12	6.98	13.8	1.421	0.06	-97.1	19.19

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - Waukegan Station		DATE	8/5/25
Sample Name	MW-11	Start Time	1322	
Condition of Well	good			
Water Level	6.44	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	sl. cloudy, brown	
Volume Removed	5 gts	WL at Sample Time	6.46	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	permit (ELUC), CCR	Sample Time	1346	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1324	6.44	7.28	14.7	1.193	2.29	169.1	75.66
1327	-	6.90	14.2	1.184	0.43	17.1	24.55
1330	-	6.84	14.1	1.170	0.20	-32.8	21.19
1333	-	6.83	14.2	1.169	0.13	-51.2	20.48
1336	-	6.83	14.0	1.170	0.09	-68.0	18.86
1339	-	6.83	14.0	1.170	0.07	-71.3	18.85
1342	6.46	6.83	14.2	1.168	0.06	-76.6	18.32

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

*KCS*

PROJECT NAME	12313.2 - Waukegan Station		DATE	8/5/25
Sample Name	Mw-14	Start Time	1146	
Condition of Well	good			
Water Level	6.06	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, orange	
Volume Removed	8 gts	WL at Sample Time	6.13	
Method of Sample	Low flow bladder	Sample Characteristics	cloudy, orange	
Sample Analysis	CCR, permit (ELUC)	Sample Time	1213	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1148	6.06	7.12	14.9	1.041	1.93	11.2	473.01
1151	-	6.92	14.7	1.038	0.38	14.8	343.02
1154	-	6.91	14.9	1.022	0.16	-103.5	153.85
1157	-	6.91	14.9	1.015	0.13	-110.8	123.44
1200	-	6.92	14.8	1.003	0.09	-117.4	135.55
1203	-	6.91	14.9	.994	0.06	-122.0	277.98
1206	-	6.91	15.0	.990	0.03	-124.4	291.53
1209	6.13	6.92	15.0	.987	0.03	-125.9	109.75

SAMPLING NOTES:

-by end of sampling samples had cleared to slightly cloudy, orange

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - Waukegan Station		DATE	8/5/25
Sample Name	MW-16	Start Time	0930	
Condition of Well	good			
Water Level	27.60	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, orange to sl. cloudy	
Volume Removed	4.5 gts	WL at Sample Time	27.71	
Method of Sample	Low flow bladder	Sample Characteristics	sl. cloudy	
Sample Analysis	CCR	Sample Time	1000	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0932	27.60	7.81	20.2	1.368	8.00	170.8	6.04
0935	-	7.07	16.0	1.432	1.06	177.8	703.07
0938	-	6.89	15.9	1.443	0.48	158.9	566.66
0941	-	6.81	16.0	1.450	0.31	126.7	202.96
0944	-	6.79	15.6	1.449	0.24	79.0	93.24
0947	-	6.79	15.8	1.443	0.23	56.6	67.62
0950	-	6.79	15.9	1.436	0.21	33.3	28.32
0953	-	6.79	15.9	1.434	0.18	23.1	29.89
0956	27.71	6.79	15.8	1.437	0.17	14.6	32.65

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KVS