DATA SUMMARY POSTING

Station: Midwest Generation Will County Generating Station

Regulated Unit(s): Pond 2 S (IEPA ID No. W1978100011-03)
Pond 3 S (IEPA ID No. W1978100011-04)

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 2nd quarter 2023 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

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

Table 1. Groundwater Analytical Data, Pond 2S and Pond 3S, Midwest Generation, LLC, Will County Generating Station, Romeoville, 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
MW-05 up-gradient	11/11/2015	6.1	220	110	0.31	7.24	770	1,900	< 0.003	0.0014	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0750	-0.168	0.031	< 0.002
	2/18/2016	4.4	230	120	0.31	6.99	730	1,600	< 0.003	0.0021	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.079	0.468	0.019	< 0.002
	5/26/2016	3.7	170	110	0.33	6.73	670	1,500	< 0.003	0.0023	0.055	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.077	< 0.402	0.019	< 0.002
	8/10/2016	3.6	67	120	0.72	8.62	480	970	< 0.003	0.0044	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	F1 < 0.0002	0.14	< 0.394	0.0049	< 0.002
	10/26/2016	3.6	44	120	0.70	9.08	410	920	< 0.003	0.0047	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.12	0.592	< 0.0025	< 0.002
	2/1/2017	4.6	250	48	0.35	6.81	530	1,600	< 0.003	0.0015	0.058	* < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	^ < 0.0002	0.048	< 0.424	0.029	< 0.002
	5/11/2017	4.0	140	85	0.31	7.86	610	1,200	< 0.003	0.0035	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.093	< 0.388	< 0.0025	< 0.002
	6/27/2017	3.8	83	99	0.53	7.95	500	1,000	< 0.003	0.0037	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.11	0.412	< 0.0025	< 0.002
	9/8/2017	4.8	89	78	0.52	9.40	490	1,000	< 0.003	0.0038	V 0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.095	0.486	0.0047	< 0.002
	11/16/2017	4.8	180	52	0.45	6.70	650	1,500	< 0.003	0.0028	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.064	< 0.379	0.012	< 0.002
	5/2/2018	3.6	200	32	0.39	7.23	510	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/3/2018	4.9	150	55	0.48	7.07	430	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	4.1	61	91	0.59	9.10	380	870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/6/2019	4.9	170	31	0.41	6.95	440	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/22/2020	4.5	52	70	0.59	7.39	300	870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/4/2020	5.0	130	29	0.38	7.06	410	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	4.7	120	28	0.53	7.07	430	1,000	< 0.003	0.0011	0.046	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.063	< 0.492	0.042	< 0.002
	8/24/2021	4.6	33	45	0.74	9.42	410	580	< 0.003	0.0054	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.091	1.230	< 0.0025	< 0.002
	11/23/2021	5.5	140	22	0.44	6.80	370	1,100	< 0.003	0.0035	0.066	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.066	0.784	0.012	< 0.002
	2/24/2022	4.9	210	25	0.39	6.73	660	1,400	< 0.003	0.0092	0.077	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.059	< 0.415	0.048	< 0.002
	6/16/2022	5.1	120	41	0.34	7.05	510	1,100	< 0.003	0.0037	0.055	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.064	< 0.471	0.008	< 0.002
	8/25/2022	6.6	130	20	0.4	6.69	300	940	< 0.003	0.0043	0.072	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.061	< 0.570	0.0056	< 0.002
	11/15/2022	8.9	150	9.8	0.72	6.78	310	930	< 0.003	0.032	0.099	< ^+ 0.001	0.004	0.0083	< 0.001	< 0.0005	0.02	< 0.0002	0.1	< 0.569	0.089	< 0.002
	2/23/2023	6.3	120	26	0.43	6.83	430	1,100	< 0.003	0.0018	0.058	< ^1+ ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	0.00027	0.067	< 0.655	0.021	< 0.002
	4/26/2023	4.9	210	33	0.47	6.73	670	1600	< 0.0030	0.0022	0.040	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.013	< 0.0002	0.055	< 0.479	0.039	< 0.0020
MW-06 up-gradient	11/10/2015	3.0	52	100	0.55	8.63	300	660	< 0.003	0.0016	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0670	-0.383	0.0039	< 0.002
	2/18/2016	2.5	74	150	0.47	8.58	280	650	< 0.003	0.0014	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.0630	0.412	< 0.0025	< 0.002
	5/26/2016	2.7	86	92	0.44	7.79	350	800	< 0.003	0.002	0.068	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.042	< 0.422	< 0.0025	< 0.002
	8/11/2016	3.6	110	58	0.35	7.74	330	840	< 0.003	0.0029	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.038	< 0.339	< 0.0025	< 0.002
	10/26/2016	3.8	86	74	0.40	8.16	220	800	< 0.003	0.003	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.043	< 0.531	< 0.0025	< 0.002
	2/1/2017	3.4	70	83	0.41	7.88	260	700	< 0.003	0.0043	0.068	* < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	^ < 0.0002	0.05	< 0.511	0.0035	< 0.002
	5/11/2017	3.0	75	84	0.28	8.68	330	570	< 0.003	0.002	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.00054	0.011	< 0.0002	0.054	< 0.388	< 0.0025	< 0.002
	6/27/2017	3.1	65	74	0.38	8.15	330	710	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.046	0.408	< 0.0025	< 0.002
	9/7/2017	3.5	75	67	0.40	8.20	300	740	< 0.003	0.0025	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.044	0.397	< 0.0025	< 0.002
	11/16/2017	3.9	88	54	0.39	7.59	280	810	< 0.003	0.0028	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.038	0.491	0.012	< 0.002
	5/3/2018	3.0	91	52	0.26	6.91	530	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/25/2018 R	NA	NA	NA	NA	7.47	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/3/2018	3.5	93	44	0.31	7.83	240	720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	4.3	120	38	0.21	7.51	350	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/3/2019 R	3.2	NA	NA	NA	8.28	NA	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/6/2019	4.2	98	31	0.33	7.91	210	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/22/2020	3.4	98	56	0.31	7.47	180	710	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	3.3	100	43	0.36	7.29	170	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	2.6	99	46	0.33	7.65	160	610	< 0.003	0.0025	0.08	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.017	0.576	< 0.0025	< 0.002
	8/24/2021	2.9	100	100	0.35	7.09	170	370	< 0.003	0.0029	0.093	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.018	< 0.468	< 0.0025	< 0.002
	11/23/2021	2.6	85	43	0.37	7.48	150	720	< 0.003	0.002	0.07	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.017	1.02	< 0.0025	< 0.002
	2/22/2022	2.8	130	35	0.33	7.29	260	940	< 0.003	0.0019	0.09	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.033	0.551	0.05	< 0.002
	6/14/2022	2.5	110	22	0.35	7.06	210	610	< 0.003	0.0018	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.018	1.22	< 0.0025	< 0.002
	8/25/2022	2.7	110	20	0.42	7.31	170	750	< 0.003	0.0023	0.088	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.021	< 0.519	< 0.0025	< 0.002
	11/15/2022	3.2	110	19	0.47	7.41	160	600	< 0.003	0.0017	0.083	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.021	1.08	< 0.0025	< 0.002
	2/23/2023	3	110	17	0.35	7.54	190	680	< 0.003	0.0023	0.086	< ^1+ ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.023	0.948	0.022	< 0.002
	4/26/2023	2.0	100	15	0.36	7.42	150	610	< 0.0030	0.0023	0.070	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.014	< 0.0002	0.019	< 0.422	< 0.0025	< 0.0020
MW-09 down-gradient	11/11/2015	1.9	56	190	0.55	9.12	460	750	< 0.003	0.0047	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.14	-0.2208	< 0.0025	< 0.002
	2/17/2016	1.8	47	160	0.55	9.10	250	600	< 0.003	0.0051	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.00065	< 0.01	< 0.0002	0.089	< 0.373	< 0.0025	< 0.002
	5/24/2016	1.6	48	180	0.51	8.79	240	640	< 0.003	0.0043	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.00071	< 0.01	< 0.0002	0.079	0.508	< 0.0025	< 0.002
	8/9/2016	2.2	53	140	0.48	8.35	280	750	< 0.003	0.0052	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.14	0.639	< 0.0025	< 0.002
	10/26/2016	2.2	33	130	0.81	9.16	230	660	< 0.003	0.0069	0.019	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.11	0.608	< 0.0025	< 0.002
	1/31/2017	2.0	61	250	0.57	8.59	180	710	< 0.003	0.0063	0.038	* < 0.001	< 0.0005	< 0.005	< 0.0010	0.0014	< 0.01	^ < 0.0002	0.09	< 0.45	< 0.0025	< 0.002
	5/9/2017	1.8	66	340	0.38	8.58	250	900	< 0.003	0.0052	0.038	< 0.001	< 0.0005	< 0.005	< 0.0010	0.00054	< 0.01	< 0.0002	0.093	< 0.361	< 0.0025	< 0.002
	6/27/2017	1.9	64	330	0.51	7.76	240	940	< 0.003	0.0046	0.039	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.091	0.638	< 0.0025	< 0.002
	9/6/2017	1.8	59	310	0.51	8.98	240	890	< 0.003	0.0047	0.038	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	< 0.01	< 0.0002	0.1	0.454	< 0.0025	< 0.002
	11/14/2017	2.6	160	270	0.51	8.1	290	910	< 0.003	0.0017	0.11	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.018	< 0.0002	0.026	< 0.372	0.0061	< 0.002
	5/1/2018	1.7	49	200	0.52	7.81	430	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/25/2018 R	NA	NA	NA	NA	NA	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/2/2018	2.1	49	170	0.55	8.09	270	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	1.5	48	280	0.29	8.90	150	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/6/2019	2.0	38	140	0.46	8.65	160	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/26/2020	1.3	55	320	0.32	8.66	140	720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	2.0	43	240	0.55	8.64	180	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/26/2021	1.6	67	360	0.39	8.74	180	900	< 0.003	0.0044	0.054	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.054	0.741	< 0.0025	< 0.002
	8/25/2021	1.9	60	360	0.43	9.06	210	800	< 0.003	0.0065	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.067	< 0.444	< 0.0025	< 0.002
	11/23/2021	1.1	30	290	0.47	8.73	210	900	< 0.003	0.0046	0.024	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.037	0.789	< 0.0025	< 0.002
	2/22/2022	1.5	49	250	0.4	8.65	160	900	< 0.003	0.007	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0065	< 0.0002	0.051	< 0.409	< 0.0025	< 0.002
	6/15/2022	1.9	43	230	0.48	8.35	180	730	< 0.003	0.0071	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.057	< 0.39	< 0.0025	< 0.002
	8/25/2022	2.1	38	210	0.58	8.68	190	770	< 0.003	0.0089	0.034	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.065	1.22	< 0.0025	< 0.002
	11/16/2022	2.3	37	210	0.79	8.82	160	690	< 0.003	0.0094	0.036	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.00066	< 0.01	< 0.0002	0.067	< 0.51	< 0.0025	< 0.002
	2/23/2023	2	38	190	0.53	9.04	210	680	< 0.003	0.0086	0.029	< ^1+ ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.065	< 0.614	< 0.0025	< 0.002
	4/26/2023	1.8	38	190	0.48	8.82	220	750	< 0.0030	0.0080	0.029	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.0002	0.062	< 0.562	< 0.0025	< 0.0020

Notes: All units are in mg/l except pH is in standard units and radium is in pCi/L.
Italics Date - First round of Detection Monitoring and resample after statistical background establishment.
F1 - MS and/or MSD Recovery outside of limits.
NA - Not analyzed. No confirmation resample required.
R - Resample
V - Serial Dilution exceeds the control limits

^ - Instrument related QC is outside acceptance limits.
* - LCS or LCSD is outside acceptance limits.
^1+ or ^+ - Initial or Continuing Calibration Verification limits is outside acceptable limits, high biased.

Table 1. Groundwater Analytical Data, Pond 2S and Pond 3S, Midwest Generation, LLC, Will County Generating Station, Romeoville, 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
MW-10 down-gradient	11/10/2015	3.9	140	140	0.77	7.34	310	980	< 0.003	0.015	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.068	1.341	< 0.0025	< 0.002
	2/16/2016	3.6	150	240	0.79	7.29	290	950	< 0.003	0.014	0.098	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.075	0.952	< 0.0025	< 0.002
	5/25/2016	3.6	120	140	0.83	7.26	260	1,000	< 0.003	0.034	0.096	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.00055	0.016	< 0.0002	0.065	0.51	< 0.0025	< 0.002
	8/10/2016	4.3	150	120	0.78	7.22	230	970	< 0.003	0.017	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.082	0.864	< 0.0025	< 0.002
	10/26/2016	3.0	160	74	0.52	7.30	220	1,000	< 0.003	0.022	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.030	0.458	< 0.0025	< 0.002
	2/2/2017	3.7	180	81	0.54	7.16	160	930	< 0.003	0.05	0.14	* < 0.001	< 0.0005	< 0.005	< 0.001	0.0013	0.02	^ < 0.0002	0.031	< 0.464	< 0.0025	< 0.002
	5/10/2017	3.0	150	100	0.44	7.83	340	860	< 0.003	0.02	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.066	0.882	< 0.0025	< 0.002
	6/27/2017	2.8	130	110	0.67	7.49	250	930	< 0.003	0.0072	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.080	0.953	< 0.0025	< 0.002
	9/7/2017	2.8	120	120	0.77	7.37	290	920	< 0.003	0.0076	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	0.00058	0.096	0.921	< 0.0025	< 0.002
	11/15/2017	4.1	140	120	0.77	7.10	270	1,000	< 0.003	0.015	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.071	0.893	< 0.0025	< 0.002
	5/1/2018	3.2	150	130	0.65	7.31	280	990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/3/2018	2.5	110	140	0.89	7.60	200	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	2.8	100	140	0.82	7.53	260	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2019	3.7	120	110	0.93	7.21	190	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/27/2020	2.3	100	170	0.90	7.29	280	850	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	3.7	130	140	0.87	7.02	180	920	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	3.0	160	130	0.62	7.16	160	910	< 0.003	0.018	0.18	^1+ < 0.001	< 0.0005	< 0.005	0.0013	0.0054	0.02	< 0.0002	0.036	< 1.14	< 0.0025	< 0.002
	8/26/2021	2.5	110	140	0.82	7.70	250	740	< 0.003	0.009	0.085	< 0.001	< 0.0005	< 0.005	< 0.001	0.00073	0.017	< 0.0002	0.12	1.48	< 0.0025	< 0.002
	11/23/2021	2.7	110	130	0.71	7.07	230	990	< 0.003	0.012	0.091	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.0011	0.013	< 0.0002	0.048	2.22	< 0.0025	< 0.002
	2/24/2022	2.6	130	120	0.53	7.02	170	840	< 0.003	0.0072	0.1	< ^1+ 0.001	< 0.0005	< 0.005	0.0012	0.001	0.014	< 0.0002	0.043	0.768	< 0.0025	< 0.002
	6/14/2022	2.9	100	140	0.86	6.99	280	790	< 0.003	0.008	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.12	1.55	< 0.0025	< 0.002
	8/25/2022	2.6	130	140	0.99	7.47	280	910	< 0.003	0.019	0.11	< 0.001	< ^1+ 0.0005	0.0053	0.001	0.0077	0.015	< 0.0002	0.12	1.2	< 0.0025	< 0.002
	9/28/2022 (R)	NA	NA	NA	NA	NA	NA	NA	NA	0.0088	NA	NA	NA	NA	NA	0.00093	NA	NA	NA	NA	NA	NA
	11/16/2022	4.4	130	160	0.94	7.15	220	910	< 0.003	0.015	0.1	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.002	0.018	< 0.0002	0.097	2.74	< 0.0025	< 0.002
	2/23/2023	3.7	140	140	0.71	7.11	250	930	< 0.003	0.015	0.12	< ^1+ ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.0008	0.016	< 0.0002	0.073	1.35	< 0.0025	< 0.002
	4/26/2023	2.8	99	150	0.94	7.23	250	900	< 0.0030	0.013	0.079	< 0.0010	< 0.00050	< 0.0050	< 0.0010	0.00067	0.015	< 0.0002	0.12	1.37	< 0.0025	< 0.0020
MW-11 down-gradient	11/10/2015	2.6	120	89	0.61	7.60	180	620	< 0.003	0.007	0.098	< 0.001	< 0.0005	< 0.005	< 0.001	0.00064	< 0.01	< 0.0002	0.0600	0.736	< 0.0025	< 0.002
	2/16/2016	3.0	100	88	0.68	7.47	170	640	< 0.003	0.0059	0.11	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.078	1.14	< 0.0025	< 0.002
	5/25/2016	2.8	82	98	0.75	7.43	170	640	< 0.003	0.0073	0.093	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.083	0.775	< 0.0025	< 0.002
	8/10/2016	3.1	96	86	0.72	7.57	150	660	< 0.003	0.0072	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.087	0.807	< 0.0025	< 0.002
	10/26/2016	2.5	110	67	0.53	7.82	120	630	< 0.003	0.0082	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.00052	< 0.01	< 0.0002	0.043	0.51	< 0.0025	< 0.002
	2/1/2017	3.9	110	72	0.65	7.54	110	600	< 0.003	0.011	0.15	* < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.076	0.909	< 0.0025	< 0.002
	5/10/2017	3.1	95	84	0.46	8.37	170	590	< 0.003	0.014	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.074	1.03	< 0.0025	< 0.002
	6/27/2017	2.8	87	90	0.59	7.57	150	680	< 0.003	0.0058	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.069	0.692	< 0.0025	< 0.002
	9/7/2017	2.8	90	94	0.58	7.40	150	*730*	< 0.003	0.0074	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.067	0.676	< 0.0025	< 0.002
	11/15/2017	2.9	96	100	0.65	7.41	160	*750*	< 0.003	0.0082	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.075	1.04	< 0.0025	< 0.002
	5/3/2018	3.8	73	110	0.69	6.74	190	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/3/2018	3.1	78	110	0.66	7.65	120	680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	2.2	86	110	0.49	7.55	120	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2019	2.5	100	80	0.55	7.26	91	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/26/2020	2.3	89	100	0.54	7.4	90	540	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	4.3	85	140	0.72	7.17	68	710	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	3.8	94	130	0.74	7.68	57	660	< 0.003	0.0067	0.16	^1+< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.077	1.29	< 0.0025	< 0.002
	8/26/2021	1.9	110	150	0.39	7.73	100	710	< 0.003	0.0076	0.1	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.034	1.29	< 0.0025	< 0.002
	11/23/2021	2.0	130	150	0.48	6.94	94	810	< 0.003	0.0085	0.11	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.025	2.35	< 0.0025	< 0.002
	12/22/2021 R	NA	NA	150	NA	7.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/23/2022	1.8	130	150	0.38	6.94	91	760	< 0.003	0.013	0.12	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.0006	0.011	< 0.0002	0.031	1.65	< 0.0025	< 0.002
	6/13/2022	2.8	120	140	0.4	7.22	97	700	< 0.003	0.0088	0.17	< 0.001	< 0.0005	< 0.005	0.0022	0.0018	0.011	< 0.0002	0.058	1.44	< 0.0025	< 0.002
	8/23/2022	2.5	110	140	0.53	6.94	160	740	< 0.003	0.0082	0.12	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.033	2.02	< 0.0025	< 0.002
	11/16/2022	3.8	120	130	0.71	7.34	66	700	< 0.003	0.013	0.14	< ^+ 0.001	< 0.0005	< 0.005	0.0015	0.0014	0.01	< 0.0002	0.052	1.61	< 0.0025	< 0.002
	2/21/2023	2.2	120	130	0.45	7.08	81	710	< 0.003	0.016	0.18	< 0.001	< 0.0005	< 0.005	< 0.001	0.00096	< 0.01	< 0.0002	0.037	1.57	< 0.0025	< 0.002
	4/25/2023	2.8	110	130	0.53	7.14	75	730	< 0.0030	0.015	0.18	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.010	< 0.0002	0.043	< 0.734	< 0.0025	< 0.0020
MW-12 down-gradient	11/10/2015	2.3	150	160	0.59	7.44	290	1,000	< 0.003	0.0016	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.034	0.8139	< 0.0025	< 0.002
	2/16/2016	1.8	130	140	0.52	7.38	220	850	< 0.003	0.0013	0.084	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.031	< 0.407	< 0.0025	< 0.002
	5/25/2016	1.9	130	150	0.54	7.23	250	890	< 0.003	0.0013	0.12	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.00063	0.014	< 0.0002	0.03	0.41	0.0026	< 0.002
	8/10/2016	2.4	170	140	0.49	7.20	280	1000	< 0.003	0.0017	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.0006	0.017	< 0.0002	0.04	< 0.426	0.0077	< 0.002
	10/26/2016	2.6	140	120	0.49	7.44	220	980	< 0.003	0.0016	0.11	< 0.001	< 0.0005	0.025	< 0.001	< 0.0005	0.013	< 0.0002	0.036	< 0.664	< 0.0025	< 0.002
	2/1/2017	2.0	160	120	0.48	7.30	150	900	< 0.003	0.0017	0.11	* < 0.001	< 0.0005	< 0.005	< 0.001	0.00065	0.013	< 0.0002	0.023	0.949	< 0.0025	< 0.002
	5/10/2017	2.3	200	240	0.30	7.65	260	1,300	< 0.003	0.0013	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.029	< 0.464	0.017	< 0.002
	6/27/2017	2.4	180	280	0.44	7.31	260	1,300	< 0.003	0.0014	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.03	0.455	0.0032	< 0.002
	9/6/2017	2.6	190	270	0.49	7.26	260	1,400	< 0.003	0.0017	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.032	< 0.317	0.0043	< 0.002
	11/15/2017	1.7	55	200	0.47	6.90	250	1,200	< 0.003	0.0054	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.11	0.434	< 0.0025	< 0.002
	5/3/2018	1.8	140	170	0.47	6.60	170	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/2/2018	F1 2.2	150	160	0.49	7.30	170	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/29/2019	1.9	140	140	0.42	7.23	190	930	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2019	2.1	140	71	0.53	7.02	110	820	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/22/2020	1.9	180	120	0.4	6.95	140	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/3/2020	2.2	160	190	0.52	7.27	160	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	1.8	140	170	0.49	7.37	180	930	< 0.003	0.0017	0.14	^1+ < 0.001	< 0.0005	< 0.005	0.001	< 0.00085	0.014	< 0.0002	0.029	0.529	< 0.0025	< 0.002
	8/26/2021	2.1	170	200	0.47	7.49	170	1000	< 0.003	0.002	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.027	1.03	< 0.0025	< 0.002
	11/23/2021	2.3	180	210	0.44	7.01	180	1200	< 0.003	0.002	0.15	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.022	0.58	0.0055	< 0.002
	2/24/2022	1.7	150	150	0.4	7.06	150	1000	< 0.003	0.0025	0.27	< ^1+ 0.001	< 0.0005	< 0.005	0.0011	0.0016	0.018	< 0.0002	0.024	< 1.62	0.0061	< 0.002
	6/13/2022	1.9	160	^+ 210	0.45	7.03	170	1000	< 0.003	0.0015	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.024	0.957	0.0045	< 0.002
	8/23/2022	1.9	150	170	0.37	6.62	160	1000	< 0.003	0.0011	0.18	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.015	0.709	0.0086	< 0.002
	11/16/2022	2.3	160	180	0.97	7.34	180	1000	< 0.003	0.0017	0.14	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.015	< 0.0002	0.029	< 0.139	< 0.0025	< 0.002
	2/21/2023	1.6	150	150	0.41	7.15	180	980	< 0.003	0.0015	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.025	< 0.651	< 0.0025	< 0.002
	4/25/2023	1.8	150	170	0.42	6.91	180	980	< 0.0030	0.0017	0.12	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.012	< 0.0002	0.022	< 0.510	0.0044	< 0.0020

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

Italics Date - First round of Detection Monitoring and resample after statistical background establishment.

F1 - MS and/or MSD Recovery outside of limits.

NA - Not analyzed. No confirmation resample required.

R - Resample

V - Serial Dilution exceeds the control limits

^ - Instrument related QC is outside acceptance limits.

* - LCS or LCSD is outside acceptance limits.

^1+ or ^+ - Initial or Continuing Calibration Verification limits is outside acceptable limits, high biased.

Table 2. Groundwater Turbidity - Ponds 2S and 3S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-05	2/23/2021	0.63
	4/10/2021	1.28
	4/25/2021	2.41
	5/24/2021	3.78
	6/11/2021	2.4
	6/28/2021	2.89
	7/12/2021	3.93
	8/4/2021	1.35
	8/24/2021	3.5
	9/24/2021	3.59
	11/23/2021	4.45
	2/24/2022	0.37
	6/16/2022	1.76
	8/25/2022	2.99
	11/15/2022	38.9
	2/23/2023	2.18
	4/26/2023	1.6
MW-06	2/23/2021	0.31
	4/10/2021	11.17
	4/25/2021	15.04
	5/24/2021	5.18
	6/11/2021	2.96
	6/29/2021	4.06
	7/12/2021	6.43
	8/4/2021	3.5
	8/24/2021	7.0
	9/24/2021	4.2
	11/23/2021	6.38
	2/22/2022	0.47
	6/14/2022	3.87
	8/25/2022	2.6
	11/16/2022	8.12
	2/23/2023	10.08
	4/26/2023	47.6
MW-09	3/1/2021	0.86
	4/10/2021	6.91
	4/25/2021	2.08
	5/25/2021	14.12
	6/11/2021	2.39
	6/29/2021	2.97
	7/12/2021	3.94
	8/4/2021	0.0
	8/25/2021	19.9
	9/24/2021	3.67
	11/23/2021	19.07
	2/22/2022	0.59
	6/15/2022	113.77
	8/25/2022	1.93
	11/16/2022	11.73
	2/23/2023	10.34
	4/27/2023	2.9
MW-10	2/25/2021	172.14
	4/10/2021	29.99
	4/25/2021	34.77
	5/25/2021	44.14
	6/11/2021	92.03
	6/29/2021	29.35
	7/12/2021	23.45
	8/4/2021	47.68
	8/26/2021	27.5
	9/24/2021	542
	11/23/2021	312.05
	2/24/2022	72.18
	6/14/2022	55.5
	8/25/2022	8.83
	11/16/2022	32.4
	2/23/2023	53.32
	4/26/2023	85.3
MW-11	4/10/2021	269.25
	4/25/2021	60.28
	5/25/2021	9.56
	6/11/2021	77.09
	6/29/2021	7.43
	7/12/2021	39.12
	8/4/2021	9.53
	8/26/2021	11.4
	9/24/2021	9.68
	11/23/2021	1.85
	2/23/2022	162.43
	6/13/2022	27.05
	8/23/2022	10.9
	11/16/2022	60.3
	2/21/2023	51.3
	4/25/2023	56.6
MW-12	4/10/2021	31.67
	4/25/2021	15.04
	5/25/2021	28.65
	6/11/2021	6.1
	6/29/2021	13.04
	7/12/2021	12.99
	8/4/2021	11.97
	8/26/2021	10.9
	9/24/2021	11.97
	11/23/2021	3.88
	2/24/2022	82.8
	6/13/2022	4.24
	8/23/2022	7.35
	11/16/2022	2.85
	2/21/2023	1.82
	4/25/2023	2.1

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/17/2023 8:50:46 AM

JOB DESCRIPTION

Will County CCR 2S/3S

JOB NUMBER

500-232842-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

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.

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Authorization

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5/17/2023 8:50:46 AM

Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570

Table of Contents

Job ID: 500-232842-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-232842-1

Receipt
The samples were received on 4/26/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5º C, 3.0º C and 5.0º C.

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

General Chemistry
Methods 9251, SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-711786 were outside control limits for chloride. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-232842-1	MW-05	Water	04/26/23 13:40	04/26/23 16:30
500-232842-2	MW-06	Water	04/26/23 09:25	04/26/23 16:30
500-232842-3	MW-09	Water	04/26/23 12:21	04/26/23 16:30
500-232842-4	MW-10	Water	04/26/23 11:02	04/26/23 16:30
500-232842-5	MW-11	Water	04/25/23 14:54	04/26/23 16:30
500-232842-6	MW-12	Water	04/25/23 16:35	04/26/23 16:30
500-232842-7	2S/3S Duplicate	Water	04/26/23 00:00	04/26/23 16:30

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: MW-05

Date Collected: 04/26/23 13:40
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/05/23 09:27	05/05/23 21:15	1
Arsenic	**0.0022**		0.0010		mg/L		05/05/23 09:27	05/05/23 21:15	1
Barium	**0.040**		0.0025		mg/L		05/05/23 09:27	05/05/23 21:15	1
Beryllium	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:15	1
Boron	**4.9**		1.0		mg/L		05/05/23 09:27	05/08/23 13:21	20
Cadmium	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:15	1
Calcium	**210**		0.20		mg/L		05/05/23 09:27	05/05/23 21:15	1
Chromium	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 21:15	1
Cobalt	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:15	1
Lead	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:15	1
Lithium	**0.013**		0.010		mg/L		05/05/23 09:27	05/05/23 21:15	1
Molybdenum	**0.055**		0.0050		mg/L		05/05/23 09:27	05/05/23 21:15	1
Selenium	**0.039**		0.0025		mg/L		05/05/23 09:27	05/05/23 21:15	1
Thallium	<0.0020		0.0020		mg/L		05/05/23 09:27	05/05/23 21:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/23 10:50	05/15/23 07:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1600**		10		mg/L			05/02/23 16:37	1
Chloride (SM 4500 Cl- E)	**33**		2.0		mg/L			05/06/23 12:25	1
Fluoride (SM 4500 F C)	**0.47**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**670**		250		mg/L			05/08/23 13:04	50

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: MW-06

Date Collected: 04/26/23 09:25
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/05/23 09:27	05/05/23 21:36	1
Arsenic	**0.0023**		0.0010		mg/L		05/05/23 09:27	05/05/23 21:36	1
Barium	**0.070**		0.0025		mg/L		05/05/23 09:27	05/05/23 21:36	1
Beryllium	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:36	1
Boron	**2.0**		0.25		mg/L		05/05/23 09:27	05/08/23 13:42	5
Cadmium	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:36	1
Calcium	**100**		0.20		mg/L		05/05/23 09:27	05/05/23 21:36	1
Chromium	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 21:36	1
Cobalt	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:36	1
Lead	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:36	1
Lithium	**0.014**		0.010		mg/L		05/05/23 09:27	05/05/23 21:36	1
Molybdenum	**0.019**		0.0050		mg/L		05/05/23 09:27	05/05/23 21:36	1
Selenium	<0.0025		0.0025		mg/L		05/05/23 09:27	05/05/23 21:36	1
Thallium	<0.0020		0.0020		mg/L		05/05/23 09:27	05/05/23 21:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/23 10:50	05/15/23 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**610**		10		mg/L			05/02/23 16:39	1
Chloride (SM 4500 Cl- E)	**15**		2.0		mg/L			05/06/23 12:25	1
Fluoride (SM 4500 F C)	**0.36**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**150**		50		mg/L			05/08/23 13:04	10

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: MW-09

Date Collected: 04/26/23 12:21
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/05/23 09:27	05/05/23 21:40	1
Arsenic	**0.0080**		0.0010		mg/L		05/05/23 09:27	05/05/23 21:40	1
Barium	**0.029**		0.0025		mg/L		05/05/23 09:27	05/05/23 21:40	1
Beryllium	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:40	1
Boron	**1.8**		0.25		mg/L		05/05/23 09:27	05/08/23 13:46	5
Cadmium	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:40	1
Calcium	**38**		0.20		mg/L		05/05/23 09:27	05/05/23 21:40	1
Chromium	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 21:40	1
Cobalt	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:40	1
Lead	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:40	1
Lithium	<0.010		0.010		mg/L		05/05/23 09:27	05/05/23 21:40	1
Molybdenum	**0.062**		0.0050		mg/L		05/05/23 09:27	05/05/23 21:40	1
Selenium	<0.0025		0.0025		mg/L		05/05/23 09:27	05/05/23 21:40	1
Thallium	<0.0020		0.0020		mg/L		05/05/23 09:27	05/05/23 21:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/23 10:50	05/15/23 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**750**		10		mg/L			05/02/23 16:42	1
Chloride (SM 4500 Cl- E)	**190**		20		mg/L			05/06/23 12:28	10
Fluoride (SM 4500 F C)	**0.48**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**220**		50		mg/L			05/08/23 13:04	10

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: MW-10

Date Collected: 04/26/23 11:02
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/05/23 09:27	05/05/23 21:44	1
Arsenic	**0.013**		0.0010		mg/L		05/05/23 09:27	05/05/23 21:44	1
Barium	**0.079**		0.0025		mg/L		05/05/23 09:27	05/05/23 21:44	1
Beryllium	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:44	1
Boron	**2.8**		0.50		mg/L		05/05/23 09:27	05/08/23 13:50	10
Cadmium	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:44	1
Calcium	**99**		0.20		mg/L		05/05/23 09:27	05/05/23 21:44	1
Chromium	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 21:44	1
Cobalt	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:44	1
Lead	**0.00067**		0.00050		mg/L		05/05/23 09:27	05/05/23 21:44	1
Lithium	**0.015**		0.010		mg/L		05/05/23 09:27	05/05/23 21:44	1
Molybdenum	**0.12**		0.0050		mg/L		05/05/23 09:27	05/05/23 21:44	1
Selenium	<0.0025		0.0025		mg/L		05/05/23 09:27	05/05/23 21:44	1
Thallium	<0.0020		0.0020		mg/L		05/05/23 09:27	05/05/23 21:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/23 10:50	05/15/23 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**900**		10		mg/L			05/02/23 17:44	1
Chloride (SM 4500 Cl- E)	**150**		20		mg/L			05/06/23 12:29	10
Fluoride (SM 4500 F C)	**0.94**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**250**		100		mg/L			05/08/23 13:05	20

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: MW-11

Date Collected: 04/25/23 14:54
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/05/23 09:27	05/05/23 21:56	1
Arsenic	**0.015**		0.0010		mg/L		05/05/23 09:27	05/05/23 21:56	1
Barium	**0.18**		0.0025		mg/L		05/05/23 09:27	05/05/23 21:56	1
Beryllium	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:56	1
Boron	**2.8**		0.50		mg/L		05/05/23 09:27	05/08/23 14:06	10
Cadmium	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:56	1
Calcium	**110**		0.20		mg/L		05/05/23 09:27	05/05/23 21:56	1
Chromium	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 21:56	1
Cobalt	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:56	1
Lead	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:56	1
Lithium	<0.010		0.010		mg/L		05/05/23 09:27	05/05/23 21:56	1
Molybdenum	**0.043**		0.0050		mg/L		05/05/23 09:27	05/05/23 21:56	1
Selenium	<0.0025		0.0025		mg/L		05/05/23 09:27	05/05/23 21:56	1
Thallium	<0.0020		0.0020		mg/L		05/05/23 09:27	05/05/23 21:56	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/23 10:50	05/15/23 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**730**		10		mg/L			05/01/23 22:12	1
Chloride (SM 4500 Cl- E)	**130**		20		mg/L			05/06/23 12:29	10
Fluoride (SM 4500 F C)	**0.53**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**75**		25		mg/L			05/04/23 11:35	5

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: MW-12

Date Collected: 04/25/23 16:35
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/05/23 09:27	05/05/23 22:00	1
Arsenic	**0.0017**		0.0010		mg/L		05/05/23 09:27	05/05/23 22:00	1
Barium	**0.12**		0.0025		mg/L		05/05/23 09:27	05/05/23 22:00	1
Beryllium	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 22:00	1
Boron	**1.8**		0.25		mg/L		05/05/23 09:27	05/08/23 14:10	5
Cadmium	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 22:00	1
Calcium	**150**		0.20		mg/L		05/05/23 09:27	05/05/23 22:00	1
Chromium	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 22:00	1
Cobalt	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 22:00	1
Lead	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 22:00	1
Lithium	**0.012**		0.010		mg/L		05/05/23 09:27	05/05/23 22:00	1
Molybdenum	**0.022**		0.0050		mg/L		05/05/23 09:27	05/05/23 22:00	1
Selenium	**0.0044**		0.0025		mg/L		05/05/23 09:27	05/05/23 22:00	1
Thallium	<0.0020		0.0020		mg/L		05/05/23 09:27	05/05/23 22:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/23 10:50	05/15/23 08:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**980**		10		mg/L			05/01/23 22:15	1
Chloride (SM 4500 Cl- E)	**170**		20		mg/L			05/06/23 12:31	10
Fluoride (SM 4500 F C)	**0.42**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**180**		50		mg/L			05/04/23 11:36	10

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: 2S/3S Duplicate

Date Collected: 04/26/23 00:00
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/05/23 09:27	05/05/23 22:04	1
Arsenic	**0.0022**		0.0010		mg/L		05/05/23 09:27	05/05/23 22:04	1
Barium	**0.069**		0.0025		mg/L		05/05/23 09:27	05/05/23 22:04	1
Beryllium	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 22:04	1
Boron	**2.2**		0.25		mg/L		05/05/23 09:27	05/08/23 14:15	5
Cadmium	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 22:04	1
Calcium	**99**		0.20		mg/L		05/05/23 09:27	05/05/23 22:04	1
Chromium	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 22:04	1
Cobalt	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 22:04	1
Lead	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 22:04	1
Lithium	**0.012**		0.010		mg/L		05/05/23 09:27	05/05/23 22:04	1
Molybdenum	**0.019**		0.0050		mg/L		05/05/23 09:27	05/05/23 22:04	1
Selenium	<0.0025		0.0025		mg/L		05/05/23 09:27	05/05/23 22:04	1
Thallium	<0.0020		0.0020		mg/L		05/05/23 09:27	05/05/23 22:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/23 10:50	05/15/23 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**650**		10		mg/L			05/02/23 17:51	1
Chloride (SM 4500 Cl- E)	**14**		10		mg/L			05/06/23 12:31	5
Fluoride (SM 4500 F C)	**0.35**		0.10		mg/L			05/10/23 14:22	1
Sulfate (SM 4500 SO4 E)	**150**		50		mg/L			05/08/23 13:05	10

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Qualifiers

Metals

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

General Chemistry

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

Glossary

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

Metals

Prep Batch: 711571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total Recoverable	Water	3005A	
500-232842-2	MW-06	Total Recoverable	Water	3005A	
500-232842-3	MW-09	Total Recoverable	Water	3005A	
500-232842-4	MW-10	Total Recoverable	Water	3005A	
500-232842-5	MW-11	Total Recoverable	Water	3005A	
500-232842-6	MW-12	Total Recoverable	Water	3005A	
500-232842-7	2S/3S Duplicate	Total Recoverable	Water	3005A	
MB 500-711571/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-711571/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-232842-1 MS	MW-05	Total Recoverable	Water	3005A	
500-232842-1 MSD	MW-05	Total Recoverable	Water	3005A	
500-232842-1 DU	MW-05	Total Recoverable	Water	3005A	

Analysis Batch: 711942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total Recoverable	Water	6020A	711571
500-232842-2	MW-06	Total Recoverable	Water	6020A	711571
500-232842-3	MW-09	Total Recoverable	Water	6020A	711571
500-232842-4	MW-10	Total Recoverable	Water	6020A	711571
500-232842-5	MW-11	Total Recoverable	Water	6020A	711571
500-232842-6	MW-12	Total Recoverable	Water	6020A	711571
500-232842-7	2S/3S Duplicate	Total Recoverable	Water	6020A	711571
MB 500-711571/1-A	Method Blank	Total Recoverable	Water	6020A	711571
LCS 500-711571/2-A	Lab Control Sample	Total Recoverable	Water	6020A	711571
500-232842-1 MS	MW-05	Total Recoverable	Water	6020A	711571
500-232842-1 MSD	MW-05	Total Recoverable	Water	6020A	711571
500-232842-1 DU	MW-05	Total Recoverable	Water	6020A	711571

Analysis Batch: 712060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total Recoverable	Water	6020A	711571
500-232842-2	MW-06	Total Recoverable	Water	6020A	711571
500-232842-3	MW-09	Total Recoverable	Water	6020A	711571
500-232842-4	MW-10	Total Recoverable	Water	6020A	711571
500-232842-5	MW-11	Total Recoverable	Water	6020A	711571
500-232842-6	MW-12	Total Recoverable	Water	6020A	711571
500-232842-7	2S/3S Duplicate	Total Recoverable	Water	6020A	711571
MB 500-711571/1-A	Method Blank	Total Recoverable	Water	6020A	711571
LCS 500-711571/2-A	Lab Control Sample	Total Recoverable	Water	6020A	711571
500-232842-1 MS	MW-05	Total Recoverable	Water	6020A	711571
500-232842-1 MSD	MW-05	Total Recoverable	Water	6020A	711571
500-232842-1 DU	MW-05	Total Recoverable	Water	6020A	711571

Prep Batch: 712981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total/NA	Water	7470A	
500-232842-2	MW-06	Total/NA	Water	7470A	
500-232842-3	MW-09	Total/NA	Water	7470A	
500-232842-4	MW-10	Total/NA	Water	7470A	
500-232842-5	MW-11	Total/NA	Water	7470A	
500-232842-6	MW-12	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 712981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-7	2S/3S Duplicate	Total/NA	Water	7470A	
MB 500-712981/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-712981/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 713303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total/NA	Water	7470A	712981
500-232842-2	MW-06	Total/NA	Water	7470A	712981
500-232842-3	MW-09	Total/NA	Water	7470A	712981
500-232842-4	MW-10	Total/NA	Water	7470A	712981
500-232842-5	MW-11	Total/NA	Water	7470A	712981
500-232842-6	MW-12	Total/NA	Water	7470A	712981
500-232842-7	2S/3S Duplicate	Total/NA	Water	7470A	712981
MB 500-712981/12-A	Method Blank	Total/NA	Water	7470A	712981
LCS 500-712981/13-A	Lab Control Sample	Total/NA	Water	7470A	712981

General Chemistry

Analysis Batch: 710743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-5	MW-11	Total/NA	Water	SM 2540C	
500-232842-6	MW-12	Total/NA	Water	SM 2540C	
MB 500-710743/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-710743/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 710987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total/NA	Water	SM 2540C	
500-232842-2	MW-06	Total/NA	Water	SM 2540C	
500-232842-3	MW-09	Total/NA	Water	SM 2540C	
MB 500-710987/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-710987/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 710989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-4	MW-10	Total/NA	Water	SM 2540C	
500-232842-7	2S/3S Duplicate	Total/NA	Water	SM 2540C	
MB 500-710989/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-710989/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-232842-4 MS	MW-10	Total/NA	Water	SM 2540C	
500-232842-4 DU	MW-10	Total/NA	Water	SM 2540C	
500-232842-7 DU	2S/3S Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 711406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-5	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-232842-6	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 500-711406/35	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-711406/36	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

General Chemistry

Analysis Batch: 711786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-232842-2	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-232842-3	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-232842-4	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-232842-5	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-232842-6	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-232842-7	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-711786/42	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-711786/65	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-711786/43	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-711786/66	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-232842-5 MS	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-232842-5 MSD	MW-11	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 712003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-232842-2	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-232842-3	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-232842-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-232842-7	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-712003/32	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-712003/34	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 712501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total/NA	Water	SM 4500 F C	
500-232842-2	MW-06	Total/NA	Water	SM 4500 F C	
500-232842-3	MW-09	Total/NA	Water	SM 4500 F C	
500-232842-4	MW-10	Total/NA	Water	SM 4500 F C	
500-232842-5	MW-11	Total/NA	Water	SM 4500 F C	
500-232842-6	MW-12	Total/NA	Water	SM 4500 F C	
500-232842-7	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-712501/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-712501/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-712501/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-712501/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-232842-2 MS	MW-06	Total/NA	Water	SM 4500 F C	
500-232842-2 MSD	MW-06	Total/NA	Water	SM 4500 F C	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-711571/1-A
Matrix: Water
Analysis Batch: 711942

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/05/23 09:27	05/05/23 21:06	1
Arsenic	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:06	1
Barium	<0.0025		0.0025		mg/L		05/05/23 09:27	05/05/23 21:06	1
Beryllium	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:06	1
Cadmium	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:06	1
Calcium	<0.20		0.20		mg/L		05/05/23 09:27	05/05/23 21:06	1
Chromium	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 21:06	1
Cobalt	<0.0010		0.0010		mg/L		05/05/23 09:27	05/05/23 21:06	1
Lead	<0.00050		0.00050		mg/L		05/05/23 09:27	05/05/23 21:06	1
Lithium	<0.010		0.010		mg/L		05/05/23 09:27	05/05/23 21:06	1
Molybdenum	<0.0050		0.0050		mg/L		05/05/23 09:27	05/05/23 21:06	1
Selenium	<0.0025		0.0025		mg/L		05/05/23 09:27	05/05/23 21:06	1
Thallium	<0.0020		0.0020		mg/L		05/05/23 09:27	05/05/23 21:06	1

Lab Sample ID: MB 500-711571/1-A
Matrix: Water
Analysis Batch: 712060

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		05/05/23 09:27	05/08/23 13:13	1

Lab Sample ID: LCS 500-711571/2-A
Matrix: Water
Analysis Batch: 711942

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.510		mg/L		102	80 - 120
Arsenic	0.100	0.0993		mg/L		99	80 - 120
Barium	0.500	0.512		mg/L		102	80 - 120
Beryllium	0.0500	0.0502		mg/L		100	80 - 120
Cadmium	0.0500	0.0506		mg/L		101	80 - 120
Calcium	10.0	9.55		mg/L		96	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.507		mg/L		101	80 - 120
Lead	0.100	0.0999		mg/L		100	80 - 120
Lithium	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	0.948		mg/L		95	80 - 120
Selenium	0.100	0.0990		mg/L		99	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-711571/2-A
Matrix: Water
Analysis Batch: 712060

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.992		mg/L		99	80 - 120

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

Lab Sample ID: 500-232842-1 MS
Matrix: Water
Analysis Batch: 711942

Client Sample ID: MW-05
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.509		mg/L		102	75 - 125
Arsenic	0.0022		0.100	0.102		mg/L		99	75 - 125
Barium	0.040		0.500	0.542		mg/L		100	75 - 125
Beryllium	<0.0010		0.0500	0.0474		mg/L		95	75 - 125
Cadmium	<0.00050		0.0500	0.0489		mg/L		97	75 - 125
Calcium	210		10.0	219	4	mg/L		67	75 - 125
Chromium	<0.0050		0.200	0.199		mg/L		99	75 - 125
Cobalt	<0.0010		0.500	0.489		mg/L		98	75 - 125
Lead	<0.00050		0.100	0.0993		mg/L		99	75 - 125
Lithium	0.013		0.100	0.115		mg/L		102	75 - 125
Molybdenum	0.055		1.00	1.01		mg/L		96	75 - 125
Selenium	0.039		0.100	0.137		mg/L		98	75 - 125
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125

Lab Sample ID: 500-232842-1 MS
Matrix: Water
Analysis Batch: 712060

Client Sample ID: MW-05
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	4.9		1.00	5.64	4	mg/L		74	75 - 125

Lab Sample ID: 500-232842-1 MSD
Matrix: Water
Analysis Batch: 711942

Client Sample ID: MW-05
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.514		mg/L		103	75 - 125	1	20
Arsenic	0.0022		0.100	0.103		mg/L		101	75 - 125	2	20
Barium	0.040		0.500	0.534		mg/L		99	75 - 125	2	20
Beryllium	<0.0010		0.0500	0.0472		mg/L		94	75 - 125	0	20
Cadmium	<0.00050		0.0500	0.0495		mg/L		98	75 - 125	1	20
Calcium	210		10.0	217	4	mg/L		49	75 - 125	1	20
Chromium	<0.0050		0.200	0.193		mg/L		96	75 - 125	3	20
Cobalt	<0.0010		0.500	0.478		mg/L		96	75 - 125	2	20
Lead	<0.00050		0.100	0.0999		mg/L		100	75 - 125	1	20
Lithium	0.013		0.100	0.111		mg/L		98	75 - 125	4	20
Molybdenum	0.055		1.00	1.02		mg/L		96	75 - 125	1	20
Selenium	0.039		0.100	0.140		mg/L		101	75 - 125	2	20
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125	2	20

Lab Sample ID: 500-232842-1 MSD
Matrix: Water
Analysis Batch: 712060

Client Sample ID: MW-05
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	4.9		1.00	5.29	4	mg/L		38	75 - 125	6	20

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

Lab Sample ID: 500-232842-1 DU
Matrix: Water
Analysis Batch: 711942

Client Sample ID: MW-05
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0022		0.00229		mg/L		6	20
Barium	0.040		0.0403		mg/L		0.4	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	210		210		mg/L		1	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	0.013		0.0147		mg/L		13	20
Molybdenum	0.055		0.0556		mg/L		1	20
Selenium	0.039		0.0393		mg/L		0.3	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-232842-1 DU
Matrix: Water
Analysis Batch: 712060

Client Sample ID: MW-05
Prep Type: Total Recoverable
Prep Batch: 711571

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	4.9		4.37		mg/L		12	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-712981/12-A
Matrix: Water
Analysis Batch: 713303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 712981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/23 10:50	05/15/23 07:38	1

Lab Sample ID: LCS 500-712981/13-A
Matrix: Water
Analysis Batch: 713303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 712981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00197		mg/L		99	80 - 120

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

Lab Sample ID: MB 500-710743/1
Matrix: Water
Analysis Batch: 710743

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			05/01/23 21:39	1

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

Lab Sample ID: LCS 500-710743/2
Matrix: Water
Analysis Batch: 710743

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		

Lab Sample ID: MB 500-710987/1
Matrix: Water
Analysis Batch: 710987

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			05/02/23 15:43	1

Lab Sample ID: LCS 500-710987/2
Matrix: Water
Analysis Batch: 710987

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	240		mg/L		96	80 - 120		

Lab Sample ID: MB 500-710989/1
Matrix: Water
Analysis Batch: 710989

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			05/02/23 17:39	1

Lab Sample ID: LCS 500-710989/2
Matrix: Water
Analysis Batch: 710989

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	238		mg/L		95	80 - 120		

Lab Sample ID: 500-232842-4 MS
Matrix: Water
Analysis Batch: 710989

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	900		250	1190		mg/L		118	75 - 125		

Lab Sample ID: 500-232842-4 DU
Matrix: Water
Analysis Batch: 710989

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	900			904		mg/L				0.7	5

Lab Sample ID: 500-232842-7 DU
Matrix: Water
Analysis Batch: 710989

Client Sample ID: 2S/3S Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	650			618		mg/L				5	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-711786/42
Matrix: Water
Analysis Batch: 711786

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			05/06/23 12:21	1

Lab Sample ID: MB 500-711786/65
Matrix: Water
Analysis Batch: 711786

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			05/06/23 12:26	1

Lab Sample ID: LCS 500-711786/43
Matrix: Water
Analysis Batch: 711786

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		99	85 - 115

Lab Sample ID: LCS 500-711786/66
Matrix: Water
Analysis Batch: 711786

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	19.9		mg/L		99	85 - 115

Lab Sample ID: 500-232842-5 MS
Matrix: Water
Analysis Batch: 711786

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	130		20.0	140	4	mg/L		71	75 - 125

Lab Sample ID: 500-232842-5 MSD
Matrix: Water
Analysis Batch: 711786

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	130		20.0	140	4	mg/L		69	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-712501/3
Matrix: Water
Analysis Batch: 712501

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			05/10/23 14:22	1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MB 500-712501/31
Matrix: Water
Analysis Batch: 712501

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			05/10/23 14:22	1

Lab Sample ID: LCS 500-712501/32
Matrix: Water
Analysis Batch: 712501

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.2		mg/L		102	90 - 119

Lab Sample ID: LCS 500-712501/4
Matrix: Water
Analysis Batch: 712501

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.7		mg/L		107	90 - 119

Lab Sample ID: 500-232842-2 MS
Matrix: Water
Analysis Batch: 712501

Client Sample ID: MW-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.36		5.00	5.36		mg/L		100	75 - 125

Lab Sample ID: 500-232842-2 MSD
Matrix: Water
Analysis Batch: 712501

Client Sample ID: MW-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.36		5.00	5.36		mg/L		100	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-711406/35
Matrix: Water
Analysis Batch: 711406

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			05/04/23 11:02	1

Lab Sample ID: LCS 500-711406/36
Matrix: Water
Analysis Batch: 711406

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	20.7		mg/L		103	88 - 123

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

Lab Sample ID: MB 500-712003/32
Matrix: Water
Analysis Batch: 712003

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			05/08/23 12:44	1

Lab Sample ID: LCS 500-712003/34
Matrix: Water
Analysis Batch: 712003

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	19.4		mg/L		97	88 - 123		

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534 5200 Fax 708-534-5211

Chain of Custody Record

MKE 232 eurofins

Client Information	Sampler: IAN JOHN HOUGSON	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500-111451-45942 1
Client Contact: Patrick Allenstein	Phone: 630-325-1300	E Mail: Diana Mockler@et eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWS D:			Job #: 500-232842
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested:			
City: Brookfield	TAT Requested (days):			
State Zip: WI 53005	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4502116506			
Email: patricka@kprginc com	WO #:			
Project Name: Will County 2S/3S Event Desc. Quarterly GW Monitoring CCR	Project #: 50011609			
Site: Illinois	SSOW#:			

500-232842 COC

Analysis Requested

Preservation Codes

A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexan
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2S2O3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4 5
Y Trizma
Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp G=grab)	Matrix (W=water S=solid O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 904.0	6010C 6020A 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
			Preservation Code				D	D	N		
1 MW-05	4-26-23	13:40	G	Water	N	N	X	X	X	5	
2 MW 06	4.26-23	09:25	G	Water	N	N	X	X	X	5	
3 MW 09	4-26-23	12:21	G	Water	N	N	X	X	X	5	
4 MW 10	4-26-23	11:02	G	Water	N	N	X	X	X	5	
5 MW 11	4-25-23	14:54	G	Water	N	N	X	X	X	5	
6 MW 12	4-25-23	16:35	G	Water	N	N	X	X	X	5	
7 2S/3S Duplicate	4-26-23	—	G	Water	N	N	X	X	X	5	

Possible Hazard Identification
[ ] Non Hazar [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] Return To Client [ ] Disposal By Lab [ ] 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	Date/Time	Company	Received by	Date/Time	Company
	4-26-23 16:30	KPRG		4/26/23 1630	EETA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		5.1-5.0, 2.6-2.5, 3.1-3.0

5/17/2023

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-232842-1

Login Number: 232842
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0,2.5,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: MW-05
Date Collected: 04/26/23 13:40
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		1	711942	FXG	EET CHI	05/05/23 21:15
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		20	712060	FXG	EET CHI	05/08/23 13:21
Total/NA	Prep	7470A			712981	MJG	EET CHI	05/12/23 10:50 - 05/12/23 12:50 [1]
Total/NA	Analysis	7470A		1	713303	MJG	EET CHI	05/15/23 07:42
Total/NA	Analysis	SM 2540C		1	710987	CLB	EET CHI	05/02/23 16:37
Total/NA	Analysis	SM 4500 Cl- E		1	711786	MM	EET CHI	05/06/23 12:25
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		50	712003	LP	EET CHI	05/08/23 13:04

Client Sample ID: MW-06
Date Collected: 04/26/23 09:25
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		1	711942	FXG	EET CHI	05/05/23 21:36
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		5	712060	FXG	EET CHI	05/08/23 13:42
Total/NA	Prep	7470A			712981	MJG	EET CHI	05/12/23 10:50 - 05/12/23 12:50 [1]
Total/NA	Analysis	7470A		1	713303	MJG	EET CHI	05/15/23 07:59
Total/NA	Analysis	SM 2540C		1	710987	CLB	EET CHI	05/02/23 16:39
Total/NA	Analysis	SM 4500 Cl- E		1	711786	MM	EET CHI	05/06/23 12:25
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		10	712003	LP	EET CHI	05/08/23 13:04

Client Sample ID: MW-09
Date Collected: 04/26/23 12:21
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		1	711942	FXG	EET CHI	05/05/23 21:40
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		5	712060	FXG	EET CHI	05/08/23 13:46
Total/NA	Prep	7470A			712981	MJG	EET CHI	05/12/23 10:50 - 05/12/23 12:50 [1]
Total/NA	Analysis	7470A		1	713303	MJG	EET CHI	05/15/23 08:01
Total/NA	Analysis	SM 2540C		1	710987	CLB	EET CHI	05/02/23 16:42
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 12:28
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		10	712003	LP	EET CHI	05/08/23 13:04

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: MW-10

Date Collected: 04/26/23 11:02
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		1	711942	FXG	EET CHI	05/05/23 21:44
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		10	712060	FXG	EET CHI	05/08/23 13:50
Total/NA	Prep	7470A			712981	MJG	EET CHI	05/12/23 10:50 - 05/12/23 12:50 [1]
Total/NA	Analysis	7470A		1	713303	MJG	EET CHI	05/15/23 08:03
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 17:44
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 12:29
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		20	712003	LP	EET CHI	05/08/23 13:05

Client Sample ID: MW-11

Date Collected: 04/25/23 14:54
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		1	711942	FXG	EET CHI	05/05/23 21:56
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		10	712060	FXG	EET CHI	05/08/23 14:06
Total/NA	Prep	7470A			712981	MJG	EET CHI	05/12/23 10:50 - 05/12/23 12:50 [1]
Total/NA	Analysis	7470A		1	713303	MJG	EET CHI	05/15/23 08:05
Total/NA	Analysis	SM 2540C		1	710743	CLB	EET CHI	05/01/23 22:12
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 12:29
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		5	711406	MM	EET CHI	05/04/23 11:35

Client Sample ID: MW-12

Date Collected: 04/25/23 16:35
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		1	711942	FXG	EET CHI	05/05/23 22:00
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		5	712060	FXG	EET CHI	05/08/23 14:10
Total/NA	Prep	7470A			712981	MJG	EET CHI	05/12/23 10:50 - 05/12/23 12:50 [1]
Total/NA	Analysis	7470A		1	713303	MJG	EET CHI	05/15/23 08:07
Total/NA	Analysis	SM 2540C		1	710743	CLB	EET CHI	05/01/23 22:15
Total/NA	Analysis	SM 4500 Cl- E		10	711786	MM	EET CHI	05/06/23 12:31
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		10	711406	MM	EET CHI	05/04/23 11:36

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Client Sample ID: 2S/3S Duplicate

Date Collected: 04/26/23 00:00
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		1	711942	FXG	EET CHI	05/05/23 22:04
Total Recoverable	Prep	3005A			711571	BDE	EET CHI	05/05/23 09:27 - 05/05/23 09:57 [1]
Total Recoverable	Analysis	6020A		5	712060	FXG	EET CHI	05/08/23 14:15
Total/NA	Prep	7470A			712981	MJG	EET CHI	05/12/23 10:50 - 05/12/23 12:50 [1]
Total/NA	Analysis	7470A		1	713303	MJG	EET CHI	05/15/23 08:10
Total/NA	Analysis	SM 2540C		1	710989	CLB	EET CHI	05/02/23 17:51
Total/NA	Analysis	SM 4500 Cl- E		5	711786	MM	EET CHI	05/06/23 12:31
Total/NA	Analysis	SM 4500 F C		1	712501	EH	EET CHI	05/10/23 14:22
Total/NA	Analysis	SM 4500 SO4 E		10	712003	LP	EET CHI	05/08/23 13:05

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

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S

Job ID: 500-232842-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

eurofins | Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/31/2023 3:00:58 PM

JOB DESCRIPTION

Will County CCR 2S/3S (RAD)

JOB NUMBER

500-232842-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Job Notes

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

Authorization

Generated
5/31/2023 3:00:58 PM

Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570

Table of Contents

Job ID: 500-232842-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-232842-2

Receipt
The samples were received on 4/26/2023 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5º C, 3.0º C and 5.0º C.

RAD
Method 903.0: Radium-226 prep batch 160-610447:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.MW-05 (500-232842-1), MW-06 (500-232842-2), MW-09 (500-232842-3), MW-10 (500-232842-4), MW-11 (500-232842-5), MW-12 (500-232842-6), 2S/3S Duplicate (500-232842-7), (LCS 160-610447/2-A), (MB 160-610447/1-A), (500-232843-E-5-A) and (500-232843-C-5-B DU)

Method 904.0: Radium-228 prep batch 160-610459:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
MW-05 (500-232842-1), MW-06 (500-232842-2), MW-09 (500-232842-3), MW-10 (500-232842-4), MW-11 (500-232842-5), MW-12 (500-232842-6), 2S/3S Duplicate (500-232842-7), (LCS 160-610459/2-A), (MB 160-610459/1-A), (500-232843-E-5-B) and (500-232843-C-5-C DU)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-232842-2

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: Will County CCR 2S/3S (RAD)

Job ID: 500-232842-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-232842-1	MW-05	Water	04/26/23 13:40	04/26/23 16:30
500-232842-2	MW-06	Water	04/26/23 09:25	04/26/23 16:30
500-232842-3	MW-09	Water	04/26/23 12:21	04/26/23 16:30
500-232842-4	MW-10	Water	04/26/23 11:02	04/26/23 16:30
500-232842-5	MW-11	Water	04/25/23 14:54	04/26/23 16:30
500-232842-6	MW-12	Water	04/25/23 16:35	04/26/23 16:30
500-232842-7	2S/3S Duplicate	Water	04/26/23 00:00	04/26/23 16:30

Client Sample ID: MW-05

Date Collected: 04/26/23 13:40
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0410	U	0.0929	0.0929	1.00	0.166	pCi/L	05/08/23 10:29	05/31/23 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.8*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:14*	*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	0.383	U	0.308	0.310	1.00	0.479	pCi/L	05/08/23 10:54	05/25/23 15:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.8*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:46*	*1*
Y Carrier	*84.1*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:46*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.424	U	0.322	0.324	5.00	0.479	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-06

Date Collected: 04/26/23 09:25
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.123	U	0.0979	0.0985	1.00	0.147	pCi/L	05/08/23 10:29	05/31/23 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:15*	*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	0.0438	U	0.227	0.227	1.00	0.422	pCi/L	05/08/23 10:54	05/25/23 15:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.7*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:46*	*1*
Y Carrier	*81.5*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:46*	*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	0.167	U	0.247	0.247	5.00	0.422	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-09

Date Collected: 04/26/23 12:21
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0368	U	0.0771	0.0772	1.00	0.139	pCi/L	05/08/23 10:29	05/31/23 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:15*	*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	0.478	U	0.366	0.368	1.00	0.562	pCi/L	05/08/23 10:54	05/25/23 15:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:46*	*1*
Y Carrier	*82.2*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:46*	*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	0.515	U	0.374	0.376	5.00	0.562	pCi/L		05/31/23 14:19	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-232842-2

Client Sample ID: MW-10

Date Collected: 04/26/23 11:02
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-4

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0652	U	0.130	0.130	1.00	0.232	pCi/L	05/08/23 10:29	05/31/23 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*47.9*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:15*	*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	**1.30**		0.706	0.716	1.00	1.00	pCi/L	05/08/23 10:54	05/25/23 15:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*47.9*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*1*
Y Carrier	*83.0*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**1.37**		0.718	0.728	5.00	1.00	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-11

Date Collected: 04/25/23 14:54
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-5

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.446		0.182	0.186	1.00	0.203	pCi/L	05/08/23 10:29	05/31/23 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.1*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:16*	*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	0.206	U	0.421	0.421	1.00	0.734	pCi/L	05/08/23 10:54	05/25/23 15:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.1*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*1*
Y Carrier	*88.6*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*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	0.652	U	0.459	0.460	5.00	0.734	pCi/L		05/31/23 14:19	1

Client Sample ID: MW-12

Date Collected: 04/25/23 16:35
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.120	U	0.0943	0.0950	1.00	0.139	pCi/L	05/08/23 10:29	05/31/23 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:16*	*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	0.0522	U	0.276	0.276	1.00	0.510	pCi/L	05/08/23 10:54	05/25/23 15:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*1*
Y Carrier	*74.8*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*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	0.172	U	0.292	0.292	5.00	0.510	pCi/L		05/31/23 14:19	1

Client Sample ID: 2S/3S Duplicate

Date Collected: 04/26/23 00:00
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0991	U	0.0917	0.0922	1.00	0.142	pCi/L	05/08/23 10:29	05/31/23 08:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.6*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:16*	*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	-0.148	U	0.329	0.330	1.00	0.658	pCi/L	05/08/23 10:54	05/25/23 15:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.6*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*1*
Y Carrier	*76.6*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:48*	*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	-0.0484	U	0.342	0.343	5.00	0.658	pCi/L		05/31/23 14:19	1

Definitions/Glossary

Client: KPRG and Associates, Inc. Job ID: 500-232842-2
Project/Site: Will County CCR 2S/3S (RAD)

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-232842-2

Rad

Prep Batch: 610447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total/NA	Water	PrecSep-21	
500-232842-2	MW-06	Total/NA	Water	PrecSep-21	
500-232842-3	MW-09	Total/NA	Water	PrecSep-21	
500-232842-4	MW-10	Total/NA	Water	PrecSep-21	
500-232842-5	MW-11	Total/NA	Water	PrecSep-21	
500-232842-6	MW-12	Total/NA	Water	PrecSep-21	
500-232842-7	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
MB 160-610447/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-610447/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 610459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-232842-1	MW-05	Total/NA	Water	PrecSep_0	
500-232842-2	MW-06	Total/NA	Water	PrecSep_0	
500-232842-3	MW-09	Total/NA	Water	PrecSep_0	
500-232842-4	MW-10	Total/NA	Water	PrecSep_0	
500-232842-5	MW-11	Total/NA	Water	PrecSep_0	
500-232842-6	MW-12	Total/NA	Water	PrecSep_0	
500-232842-7	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
MB 160-610459/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-610459/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-610447/1-A
Matrix: Water
Analysis Batch: 613861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610447

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0000	U	0.0560	0.0560	1.00	0.117	pCi/L	05/08/23 10:29	05/31/23 08:13	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*05/08/23 10:29*	*05/31/23 08:13*	*1*

Lab Sample ID: LCS 160-610447/2-A
Matrix: Water
Analysis Batch: 613861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610447

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.16		1.09	1.00	0.123	pCi/L	90	75 - 113		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.4*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-610459/1-A
Matrix: Water
Analysis Batch: 613105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610459

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1797	U	0.301	0.301	1.00	0.513	pCi/L	05/08/23 10:54	05/25/23 15:45	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:45*	*1*
Y Carrier	*85.2*		*30 - 110*	*05/08/23 10:54*	*05/25/23 15:45*	*1*

Lab Sample ID: LCS 160-610459/2-A
Matrix: Water
Analysis Batch: 613105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610459

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.17	7.218		1.03	1.00	0.456	pCi/L	88	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*94.4*		*30 - 110*
Y Carrier	*84.1*		*30 - 110*

Eurofins Chicago
2417 Bond Street
University Park IL 60484
Phone 708-534 5200 Fax 708-534-5211

Chain of Custody Record

MKE 232 eurofins

Client Information	Sampler: IAN JOHN HOUGSON	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500-111451-45942 1
Client Contact: Patrick Allenstein	Phone: 630-325-1300	E Mail: Diana Mockler@et eurofinsus com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWS D:			Job #: 500-232842
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested:			
City: Brookfield	TAT Requested (days):			
State Zip: WI 53005	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 4502116506			
Email: patricka@kprginc com	WO #:			
Project Name: Will County 2S/3S Event Desc. Quarterly GW Monitoring CCR	Project #: 50011609			
Site: Illinois	SSOW#:			

500-232842 COC

Analysis Requested

Preservation Codes

A HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA
M Hexan
N None
O AsNaO2
P Na2O4S
Q Na2SO3
R Na2S2O3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4 5
Y Trizma
Z other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp G=grab)	Matrix (W=water S=solid O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 904.0	6010C 6020A 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
			Preservation Code				D	D	N		
1 MW-05	4-26-23	13:40	G	Water	N	N	X	X	X	5	
2 MW 06	4.26-23	09:25	G	Water	N	N	X	X	X	5	
3 MW 09	4-26-23	12:21	G	Water	N	N	X	X	X	5	
4 MW 10	4-26-23	11:02	G	Water	N	N	X	X	X	5	
5 MW 11	4-25-23	14:54	G	Water	N	N	X	X	X	5	
6 MW 12	4-25-23	16:35	G	Water	N	N	X	X	X	5	
7 2S/3S Duplicate	4-26-23	—	G	Water	N	N	X	X	X	5	

Possible Hazard Identification
☐ Non Hazar ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ 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	Date/Time	Company	Received by	Date/Time	Company
	4-26-23 16:30	KPRG		4/26/23 1630	EETA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		5.1-5.0, 2.6-2.5, 3.1-3.0

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-173301.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-232842-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/24/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Will County CCR 2S/3S (RAD)	Project #: 50011609			
Site: NRG Midwest Generation Will County	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-05 (500-232842-1)	4/26/23	13:40 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-06 (500-232842-2)	4/26/23	09:25 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-09 (500-232842-3)	4/26/23	12:21 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-10 (500-232842-4)	4/26/23	11:02 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-11 (500-232842-5)	4/25/23	14:54 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-12 (500-232842-6)	4/25/23	16:35 Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
2S/3S Duplicate (500-232842-7)	4/26/23	Central		Water			X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
										21	

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

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 4/27/23 1615	Company	Received by: fedex	Date/Time:	Company
Relinquished by: fedex	Date/Time:	Company	Received by: [signature]	Date/Time: 4/28/23 0830	Company: GTASTL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-232842-2

Login Number: 232842
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.0,2.5,3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-232842-2

Login Number: 232842
List Number: 2
Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis
List Creation: 04/28/23 02:23 PM

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

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-232842-2

Client Sample ID: MW-05
Date Collected: 04/26/23 13:40
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613861	SCB	EET SL	05/31/23 08:14
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613105	SCB	EET SL	05/25/23 15:46
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-06
Date Collected: 04/26/23 09:25
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:15
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613105	SCB	EET SL	05/25/23 15:46
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-09
Date Collected: 04/26/23 12:21
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:15
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613105	SCB	EET SL	05/25/23 15:46
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-10
Date Collected: 04/26/23 11:02
Date Received: 04/26/23 16:30

Lab Sample ID: 500-232842-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:15
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:48
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-232842-2

Client Sample ID: MW-11

Lab Sample ID: 500-232842-5

Date Collected: 04/25/23 14:54
Matrix: Water
Date Received: 04/26/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:16
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:48
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: MW-12

Lab Sample ID: 500-232842-6

Date Collected: 04/25/23 16:35
Matrix: Water
Date Received: 04/26/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:16
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:48
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-232842-7

Date Collected: 04/26/23 00:00
Matrix: Water
Date Received: 04/26/23 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			610447	KAC	EET SL	05/08/23 10:29
Total/NA	Analysis	903.0		1	613938	SCB	EET SL	05/31/23 08:16
Total/NA	Prep	PrecSep_0			610459	KAC	EET SL	05/08/23 10:54
Total/NA	Analysis	904.0		1	613238	SCB	EET SL	05/25/23 15:48
Total/NA	Analysis	Ra226_Ra228		1	613826	EMH	EET SL	05/31/23 14:19

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. Job ID: 500-232842-2
Project/Site: Will County CCR 2S/3S (RAD)

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S (RAD)

Job ID: 500-232842-2

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)
500-232842-1	MW-05	98.8
500-232842-2	MW-06	93.7
500-232842-3	MW-09	88.1
500-232842-4	MW-10	47.9
500-232842-5	MW-11	78.1
500-232842-6	MW-12	90.8
500-232842-7	2S/3S Duplicate	79.6
LCS 160-610447/2-A	Lab Control Sample	94.4
MB 160-610447/1-A	Method Blank	95.4

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-232842-1	MW-05	98.8	84.1
500-232842-2	MW-06	93.7	81.5
500-232842-3	MW-09	88.1	82.2
500-232842-4	MW-10	47.9	83.0
500-232842-5	MW-11	78.1	88.6
500-232842-6	MW-12	90.8	74.8
500-232842-7	2S/3S Duplicate	79.6	76.6
LCS 160-610459/2-A	Lab Control Sample	94.4	84.1
MB 160-610459/1-A	Method Blank	95.4	85.2

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-26-23
Sample Name	MW-05	Start Time	13:25	
Condition of Well	GOOD			
Water Level	10.34	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	2.5 QTS	W L at Sample Time	10.33	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	13:40	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:28	10.35	7.87	13.2	1.737	6.42	39.4	2.1
13:31	10.34	7.12	11.4	1.972	3.27	70.8	1.6
13:34	10.34	6.83	11.6	2.029	1.90	82.4	1.6
13:37	10.35	6.75	11.4	2.068	1.12	87.3	2.0
13:40	10.33	6.73	11.5	2.072	0.93	89.0	1.6

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HOVIGSON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-26-23
Sample Name	MW-06	Start Time	09:07	
Condition of Well	GOOD			
Water Level	12.01	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS RUST FLUFF ODORLESS COLOR PARTICLES	
Volume Removed	3.5 Qts	W L at Sample Time	12.05	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR FLUFF PARTICLES/RUST COLOR	
Sample Analysis	CCA + CCR & CCR DUPE	Sample Time	09:25	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
09:10	12.06	7.10	10.4	1.094	8.16	73.0	4.24
09:13	12.08	7.28	10.7	0.967	2.28	-71.9	35.0
09:16	12.10	7.37	10.6	0.939	0.95	-98.6	37.3
09:19	12.07	7.40	10.7	0.934	0.59	-107.8	19.7
09:22	12.07	7.42	10.7	0.932	0.46	-112.8	28.9
09:25	12.05	7.42	10.7	0.932	0.43	-115.0	47.6

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HOWIESON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE 4-26-23
Sample Name	MW-09	Start Time	12:03
Condition of Well	Good		
Water Level	11.81	Total Depth	—
Well Diameter	PVC – 2 inch	Volume in Well	—
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS SLIGHT ODOR
Volume Removed	3 QTS	W L at Sample Time	12:08
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR
Sample Analysis	CCA + CCR INIS 2N35	Sample Time	12:21
Water Quality Meter	YSI ProDss		

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:06	11.94	8.21	12.1	1.254	6.20	-107.9	2.9
12:09	12.07	8.77	12.0	1.254	2.18	-107.1	3.2
12:12	12.06	8.82	12.0	1.255	1.27	-107.8	3.2
12:15	12.06	8.83	12.0	1.255	0.87	-108.9	3.0
12:18	12.08	8.82	12.1	1.256	0.60	-110.9	2.8
12:21	12.08	8.82	12.0	1.257	0.51	-111.9	2.9

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HOWIGSON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-26-23
Sample Name	MW-10	Start Time	10:41	
Condition of Well	Good			
Water Level	10.79	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	TAN TINT HIGH ODORLESS TURB	
Volume Removed	3 QTS	W L at Sample Time	10.87	
Method of Sample	Low-Flow	Sample Characteristics	TAN TINT MODERATE TURBIDITY	
Sample Analysis	CCA + CCR	Sample Time	11:02	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
10:44	10.84	7.00	10.7	1.582	7.95	-33.0	14.8
10:47	10.87	7.16	10.8	1.447	3.02	-79.8	96.3
10:50	10.89	7.23	10.7	1.406	1.22	-93.0	148.2
10:53	10.88	7.35	10.5	1.392	2.23	-87.3	213.8
10:56	10.89	7.23	10.6	1.385	0.74	-80.9	155.7
10:59	10.87	7.23	10.6	1.384	0.56	-76.7	122.1
11:02	10.87	7.23	10.6	1.383	0.52	-75.7	85.3

FLUSH CELL HIGH TURB →

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HANSEON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-25-23
Sample Name	MW-11	Start Time	14:36	
Condition of Well	GOOD			
Water Level	10.38	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	TAN TINT	
Volume Removed	3 QTS	W L at Sample Time	10.69	
Method of Sample	Low-Flow	Sample Characteristics	SLIGHT TAN TINT TRACE TURB	
Sample Analysis	CCR	Sample Time	14:54	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
14:39	10.49	7.21	11.2	1.304	5.48	-65.9	34.4
14:42	10.57	7.24	11.1	1.285	2.43	-86.1	116.3
14:45	10.59	7.21	11.1	1.276	1.29	-100.3	94.1
14:48	10.65	7.19	11.0	1.273	0.84	-106.7	91.2
14:51	10.66	7.16	11.0	1.271	0.58	-111.6	71.4
14:54	10.69	7.14	11.0	1.271	0.46	-114.5	56.6

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HOWESON

PROJECT NAME	NRG – WILL COUNTY STATION (12313.3)		DATE	4-25-23
Sample Name	MW-12	Start Time	16:14	
Condition of Well	GOOD			
Water Level	10.38	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	COLORLESS ODORLESS	
Volume Removed	3.5 GALS.	W L at Sample Time	10.38	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCR	Sample Time	16:35	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
16:17	10.40	6.84	10.3	1.549	5.50	-85.1	5.6
16:20	10.41	6.84	10.5	1.628	2.63	-50.1	2.2
16:23	10.40	6.88	10.3	1.641	1.77	-26.2	2.1
16:26	10.39	6.90	10.3	1.645	1.13	-12.0	2.0
16:29	10.38	6.90	10.3	1.649	0.86	-5.6	1.9
16:32	10.38	6.91	10.3	1.650	0.71	0.4	2.1
16:35	10.38	6.91	10.2	1.651	0.65	2.1	2.1

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates IAN JOHN HOWIESON