

## **DATA SUMMARY POSTING**

Station: Midwest Generation Will County Generating Station

Regulated Unit(s):   Pond 1N (IEPA ID No. W1978100011-01)  
                          Pond 1S (IEPA ID No. W1978100011-02)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) background development groundwater monitoring was initiated for Ponds 1 N and 1 S 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. In addition, Table 2 provides a summary of turbidity data which is included under the State CCR Rule requirements.

No background statistics or proposed Groundwater Protection Standards (GWPSs) are included on these tables since a full round of eight background sampling rounds has not yet been completed. Once completed, the background values and GWPSs will be calculated and proposed as part of the Operating Permit submittal for Ponds 1 N and 1 S. Upon Illinois Environmental Protection Agency approval of the Operating Permit, the approved comparison values will be included for subsequent data comparisons/evaluations.

Table 1. CCR Section 845.600 Parameter Analytical Data, Pond 1N and Pond 1S, 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	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-01	5/3/2021	2.6	170	21 F1	0.62	6.83	390	1200	< 0.003	< 0.001	0.095	< 0.001	< 0.0005	< 0.005	< 0.001	0.62	< 0.0005	0.034	< 0.0002	0.012	0.623	0.0093	< 0.002
	5/24/2021	2.5	200	18	0.63	6.86	350	1100	< 0.003	< 0.001	0.093	^1+< 0.001	< 0.0005	< 0.005	< 0.001	0.63	< 0.0005	0.036	< 0.0002	F1< 0.012 F1	0.953	0.012	< 0.002
	6/7/2021	3	200	18	0.63	6.52	380	510	< 0.003	< 0.001	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.63	< 0.0005	0.037	< 0.0002	0.013	< 0.372	0.01	< 0.002
	6/25/2021	B 2.6	200	20	0.59	6.64	410	1200	^+< 0.003	< 0.001	0.097	< 0.001	< 0.0005	< 0.005	< 0.001	0.59	< 0.0005	0.037	< 0.0002	0.014	DNYA	0.0042	< 0.002
MW-02	5/3/2021	5.3	87	28	0.41	7.76	500	1100	< 0.003	0.009	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	0.41	< 0.0005	0.046	< 0.0002	0.072	1.3	< 0.0025	< 0.002
	5/24/2021	5.2	88	24	0.41	7.77	550	1100	< 0.003	0.0099	0.059	^1+< 0.001	< 0.0005	< 0.005	< 0.001	0.41	< 0.0005	0.047	< 0.0002	0.07	1.19	< 0.0025	< 0.002
	6/7/2021	6.5	100	25	0.4	7.6	540	1100	< 0.003	0.011	0.057	< 0.001	< 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.045	< 0.0002	0.081	0.54	< 0.0025	< 0.002
	6/28/2021	B 5.3	95	23	0.36	7.93	500	1200	^+< 0.003	0.012	0.059	< 0.001	< 0.0005	0.0057	< 0.001	0.36	< 0.0005	0.046	< 0.0002	0.075	DNYA	< 0.0025	< 0.002
MW-03	5/3/2021	3.3	140	18	0.31	6.9	240	890	< 0.003	0.0011	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	0.04	< 0.0002	0.017	0.993	< 0.0025	< 0.002
	5/4/2021	3.2	120	19	0.34	6.91	270	900	< 0.003	0.001	0.001	^1+< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.038	< 0.0002	0.018	0.922	< 0.0057	< 0.002
	6/8/2021	3.7	140	21	0.32	6.75	290	940	< 0.003	0.0014	0.1	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.041	< 0.0002	0.017	0.857	< 0.0025	< 0.002
	6/28/2021	B 3.6	120	23	0.32	7.17	290	930	^+< 0.003	0.0023	0.091	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.044	< 0.0002	0.022	DNYA	< 0.0025	< 0.002
MW-04	5/3/2021	5.1	310	28	0.36	6.76	910	2000	< 0.003	0.003	0.046	< 0.001	< 0.0005	< 0.005	0.0019	0.36	< 0.0005	0.026	< 0.0002	0.026	1.16	< 0.0025	< 0.002
	5/24/2021	5.5	340	24	0.38	6.9	950	2000	< 0.003	0.0039	0.047	^1+< 0.001	< 0.0005	< 0.005	0.0016	0.38	< 0.0005	0.027	< 0.0002	0.028	1.72	< 0.0051	< 0.002
	6/8/2021	5.7	310	24	0.37	6.58	910	2000	< 0.003	0.0026	0.043	< 0.001	< 0.0005	< 0.005	0.0016	0.37	< 0.0005	0.027	< 0.0002	0.028	< 0.459	0.0076	< 0.002
	6/28/2021	B 5.6	330	20	0.35	6.95	930	2100	^+< 0.003	0.011	0.047	< 0.001	< 0.0005	< 0.005	0.0016	0.35	< 0.0005	0.025	< 0.0002	0.027	DNYA	0.019	< 0.002
MW-07	5/4/2021	4	130	110	0.69	8.29	490	1000	< 0.003	0.0022	0.063	< 0.001	< 0.0005	< 0.005	< 0.001	0.69	< 0.0005	0.026	< 0.0002	0.051	0.952	< 0.0025	< 0.002
	5/24/2021	4.2	150	140	0.53	8.38	590	1400	< 0.003	0.0022	0.064	^1+< 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	0.028	< 0.0002	0.049	1.28	< 0.0025	< 0.0025
	6/7/2021	4	110	120	0.69	7.62	480	1000	< 0.003	0.0026	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	0.69	< 0.0005	0.022	< 0.0002	0.07	1.25	< 0.0025	< 0.002
	6/25/2021	B 6	290	250	0.42	6.35	850	2300	^+< 0.003	0.0024	0.12	< 0.001	< 0.0005	0.034	0.0012	0.42	< 0.0005	0.032	< 0.0002	0.051	DNYA	0.0039	< 0.002
MW-08	5/4/2021	2.6	190	290	0.51	6.95	490	1900	< 0.003	0.0073	0.081	< 0.001	< 0.0005	< 0.005	0.0015	0.51	< 0.0005	0.015	< 0.0002	0.047	0.873	< 0.0025	< 0.002
	5/8/2021	2.8	170	290	0.51	6.9	540	1600	< 0.003	0.0074	0.083	^1+< 0.001	< 0.0005	< 0.005	0.001	0.51	< 0.0005	0.016	< 0.0002	0.044	1.06	< 0.0025	< 0.002
	6/7/2021	4.2	170	120	0.59	7.24	650	1400	< 0.003	0.01	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	0.59	< 0.0005	0.021	< 0.0002	0.091	0.768	< 0.0025	< 0.002
	6/28/2021	B 3	160	190	0.53	7.17	480	1400	^+< 0.003	0.014	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0011	0.019	< 0.0002	0.066	DNYA	< 0.0025	< 0.002
MW-13	5/4/2021	1.7	150	210	0.29	7.54	280	1100	< 0.003	0.0011	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	0.00054	0.013	< 0.0002	0.025	1.02	0.0032	< 0.002
	5/26/2021	1.8	150	220	0.32	7.47	280	1100	< 0.003	0.001	0.13	^1+< 0.001	< 0.0005	< 0.005	< 0.001	0.32	0.00052	< 0.01	< 0.0002	0.016	0.724	0.0025	< 0.002
	6/7/2021	2.2	180	250	0.33	7.19	270	1200	< 0.003	0.0021	0.13	< 0.001	< 0.0005	< 0.005	0.0013	0.33	0.0014	< 0.01	< 0.0002	0.018	1.07	0.0027	< 0.002
	6/28/2021	0.68	110	160	0.37	7.56	120	840	^+< 0.003	< 0.001	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	0.37	< 0.0005	0.016	< 0.0002	0.018	DNYA	0.0072	< 0.002
MW-14	5/4/2021	4.8	130	110	0.44	8.03	490	1100	< 0.003	0.0035	0.097	< 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.046	< 0.0002	0.053	< 0.453	< 0.0025	< 0.002
	5/25/2021	5.1	140	110	0.42	7.94	550	1300	< 0.003	0.0038	0.082	^1+< 0.001	< 0.0005	< 0.005	< 0.001	0.42	< 0.0005	0.051	< 0.0002	0.052	0.736	< 0.0025	< 0.002
	6/7/2021	5.7	150	110	0.47	7.53	530	1200	< 0.003	0.0047	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	0.47	0.00062	0.05	< 0.0002	0.054	< 0.368	< 0.0025	< 0.002
	6/28/2021	B 3.1	87	120	0.74	8.17	400	990	^+< 0.003	0.0028	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.74	< 0.0005	0.021	< 0.0002	0.081	DNYA	< 0.0025	< 0.002
MW-15	5/4/2021	3.1	180	140	0.34	7.29	510	1400	< 0.003	0.0015	0.18	< 0.001	< 0.0005	< 0.005	0.0012	0.34	0.0013	0.025	< 0.0002	0.03	1.16	< 0.0025	< 0.002
	5/25/2021	3.2	220	120	0.37	7.27	600	1400	< 0.003	0.0018	0.14	^1+< 0.001	< 0.0005	< 0.005	0.0016	0.37	< 0.0005	0.025	< 0.0002	0.026	< 0.564	< 0.0025	< 0.002
	6/7/2021	3.8	170	110	0.53	7.12	570	1200	< 0.003	0.0021	0.1	< 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	0.019	< 0.0002	0.033	0.491	< 0.0025	< 0.002
	6/25/2021	B 3.4	170	110	0.51	7.09	550	1300	^+< 0.003	0.003	0.1	< 0.001	< 0.0005	< 0.005	< 0.001	0.51	< 0.0005	0.021	< 0.0002	0.036	DNYA	< 0.0025	< 0.002

Notes: All units are in mg/l except pH is in standard units and radium is in pCi/L.  
DNYA - Data not yet available.  
F1 - MS and/or MSD Recovery outside of limits.  
B - Compound was found in the blank and sample.  
^+ - Continuing Calibration Verification limits is outside acceptable limits, high biased.

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Will County Generating Station, Joliet, IL.

Well ID	Date	Turbidity (NTU)
MW-01	2/23/2021	0.64
	4/10/2021	5.81
	4/25/2021	7.69
	5/3/2021	1.74
	5/24/2021	1.83
	6/7/2021	2.32
	6/25/2021	3.5
MW-02	2/25/2021	8.84
	4/10/2021	9.17
	4/25/2021	12.03
	5/3/2021	2.42
	5/24/2021	2.7
	6/7/2021	1.82
	6/28/2021	3.15
MW-03	3/1/2021	0
	4/10/2021	1.45
	4/25/2021	3.41
	5/3/2021	1.61
	5/24/2021	2.06
	6/8/2021	2.34
	6/28/2021	2.69
MW-04	2/22/2021	9.87
	4/10/2021	42.2
	4/25/2021	7.41
	5/3/2021	4.2
	5/24/2021	4.45
	6/8/2021	2.8
	6/28/2021	12.93
MW-07	3/1/2021	6.11
	4/10/2021	6.19
	4/25/2021	6.98
	5/4/2021	37.65
	5/24/2021	2.54
	6/7/2021	6.21
	6/25/2021	6.02
MW-08	3/1/2021	2.3
	4/10/2021	270.98
	4/25/2021	26.73
	5/4/2021	6.6
	5/28/2021	6.51
	6/7/2021	4.58
	6/28/2021	5.67

Note: dataset currently may include high and low outliers. More than 8 rounds of measurements may be required for background calculations.

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Will County Generating Station, Joliet, IL.

Well ID	Date	Turbidity (NTU)
MW-13	5/4/2021	20.6
	5/25/2021	9.8
	6/7/2021	6.49
	6/28/2021	8.25
MW-14	5/4/2021	6.88
	5/25/2021	3.5
	6/7/2021	2.55
	6/28/2021	7.44
MW-15	5/4/2021	28.65
	5/25/2021	8.89
	6/7/2021	8.82
	6/28/2021	6.48

Note: dataset currently may include high and low outliers. More than 8 rounds of measurements may be required for background calculations.



## **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 2<sup>nd</sup> quarter 2021 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 as they will be calculated and proposed as part of the Operating Permit submittals due by October 31, 2021. Upon Illinois Environmental Protection Agency approval of the Operating Permit, the approved comparison values will be included for subsequent data comparisons/evaluations.

Table 1. Groundwater Analytical Results - 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	Fluoride	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	0.31	< 0.0005	0.013	< 0.0002	0.075	-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	0.31	< 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	0.33	< 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	0.72	< 0.0005	< 0.01	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	0.7	< 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	0.35	< 0.0005	0.016	^ < 0.0002	0.048	< 0.424	0.029	< 0.002	
	5/11/2017	4.0	610	85	0.31	7.86	610	1,200	< 0.003	0.0035	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 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	0.53	< 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	0.069	V < 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 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	0.45	< 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	0.39	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	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	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	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	NA	NA
	11/4/2020	5	130	29	0.38	7.06	410	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	4.7	430	28	0.53	7.07	430	1,000	< 0.003	0.0011	0.046	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	0.015	< 0.0002	0.063	DNYA	0.042	< 0.002	
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	0.55	< 0.0005	0.011	< 0.0002	0.067	-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	0.47	< 0.0005	0.015	< 0.0002	0.063	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	0.44	< 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	0.35	< 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	0.4	< 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	0.41	< 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	0.28	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	0.38	< 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	0.4	< 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	0.39	< 0.0005	0.017	< 0.0002	0.038	0.491	0.012	< 0.002	
	5/3/2018	3	91	52	0.26	6.91	530	750	NA	NA	NA	NA	NA	NA	NA	0.26	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	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	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	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	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	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	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	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	0.33	< 0.0005	0.016	< 0.0002	0.017	DNYA	< 0.0025	< 0.002		
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	0.55	< 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	0.55	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	0.51	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	0.48	< 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	< 0.001	0.81	< 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	< 0.001	0.57	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	< 0.001	0.38	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	< 0.001	0.51	< 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	< 0.001	0.51	< 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	< 0.001	0.51	< 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	0.52	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	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	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	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	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	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	NA	NA
5/25/2021	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										

Table 1. Groundwater Analytical Results - 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	Fluoride	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	0.77	< 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	0.79	< 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	0.83	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	0.78	< 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	0.52	< 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	0.54	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	0.44	< 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	0.67	< 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	0.77	< 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	0.77	< 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	0.65	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	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	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	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	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	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	0.62	0.0054	0.02	< 0.0002	0.036	DNYA	< 0.0025	< 0.002	
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	0.61	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	110	640	< 0.003	0.0059	0.11	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.68	< 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	0.75	< 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	0.72	< 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	0.53	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	0.65	< 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	0.46	< 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	0.59	< 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	0.58	< 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	0.65	< 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	0.69	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	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	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	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	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	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	0.74	< 0.0005	< 0.01	< 0.0002	0.077	DNYA	< 0.0025	< 0.002	
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	0.59	< 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	0.52	< 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	0.54	0.00063	0.014	< 0.0002	0.03	0.41	< 0.0025	< 0.002	
	8/10/2016	2.4	170	140	0.49	7.20	280	1,000	< 0.003	0.0017	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.49	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	0.49	< 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	0.48	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	0.3	< 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	0.44	< 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	0.49	< 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	0.47	< 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	0.47	NA	NA	NA	NA	NA	NA	NA	
	10/2/2018	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	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	NA	
	12/5/2019	2.1	140	71	0.53	7.02	110																	

Table 2. Groundwater Turbidity - 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
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
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
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
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
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

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-198657-1  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:  
5/21/2021 8:49:02 AM

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

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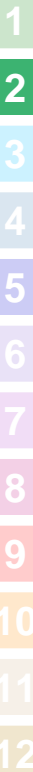
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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

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

Job ID: 500-198657-1

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**Job ID: 500-198657-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-198657-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/5/2021 11:56 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 4.7° C, 4.8° C, 5.6° C and 5.8° C.

**Metals**

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

**General Chemistry**

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

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# Method Summary

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

Job ID: 500-198657-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL 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:

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



# Sample Summary

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

Job ID: 500-198657-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198657-1	MW-01	Water	05/03/21 12:01	05/05/21 11:56	
500-198657-2	MW-02	Water	05/03/21 13:40	05/05/21 11:56	
500-198657-3	MW-03	Water	05/03/21 15:00	05/05/21 11:56	
500-198657-4	MW-04	Water	05/03/21 14:20	05/05/21 11:56	
500-198657-5	MW-07	Water	05/04/21 13:00	05/05/21 11:56	
500-198657-6	MW-08	Water	05/04/21 14:26	05/05/21 11:56	
500-198657-7	MW-13	Water	05/04/21 15:05	05/05/21 11:56	
500-198657-8	MW-14	Water	05/04/21 13:40	05/05/21 11:56	
500-198657-9	MW-15	Water	05/04/21 12:29	05/05/21 11:56	
500-198657-10	Duplicate	Water	05/03/21 00:00	05/05/21 11:56	

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-01**  
Date Collected: 05/03/21 12:01  
Date Received: 05/05/21 11:56

**Lab Sample ID: 500-198657-1**  
Matrix: Water

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.034		0.010		mg/L		05/12/21 08:23	05/12/21 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:12	1
Arsenic	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:12	1
Barium	0.095		0.0025		mg/L		05/12/21 08:23	05/12/21 22:12	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:12	1
Boron	2.6		0.50		mg/L		05/12/21 08:23	05/17/21 14:10	10
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:12	1
Calcium	170		0.20		mg/L		05/12/21 08:23	05/12/21 22:12	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:12	1
Cobalt	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:12	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:12	1
Molybdenum	0.012		0.0050		mg/L		05/12/21 08:23	05/12/21 22:12	1
Selenium	0.0093		0.0025		mg/L		05/12/21 08:23	05/12/21 22:12	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			05/07/21 05:46	1
Chloride	21	F1	2.0		mg/L			05/17/21 15:46	1
Fluoride	0.62		0.10		mg/L			05/16/21 16:08	1
Sulfate	390		100		mg/L			05/17/21 13:11	20

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-02**

**Lab Sample ID: 500-198657-2**

Date Collected: 05/03/21 13:40

Matrix: Water

Date Received: 05/05/21 11:56

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.046		0.010		mg/L		05/12/21 08:23	05/12/21 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:29	1
Arsenic	0.0090		0.0010		mg/L		05/12/21 08:23	05/12/21 22:29	1
Barium	0.058		0.0025		mg/L		05/12/21 08:23	05/12/21 22:29	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:29	1
Boron	5.3		1.0		mg/L		05/12/21 08:23	05/17/21 14:34	20
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:29	1
Calcium	87		0.20		mg/L		05/12/21 08:23	05/12/21 22:29	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:29	1
Cobalt	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:29	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:29	1
Molybdenum	0.072		0.0050		mg/L		05/12/21 08:23	05/12/21 22:29	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 22:29	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/07/21 05:54	1
Chloride	28		2.0		mg/L			05/17/21 15:47	1
Fluoride	0.41		0.10		mg/L			05/16/21 16:28	1
Sulfate	500		100		mg/L			05/17/21 13:12	20

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-198657-3**

Date Collected: 05/03/21 15:00

Matrix: Water

Date Received: 05/05/21 11:56

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.040		0.010		mg/L		05/12/21 08:23	05/12/21 19:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:33	1
Arsenic	0.0011		0.0010		mg/L		05/12/21 08:23	05/12/21 22:33	1
Barium	0.11		0.0025		mg/L		05/12/21 08:23	05/12/21 22:33	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:33	1
Boron	3.3		0.50		mg/L		05/12/21 08:23	05/17/21 14:37	10
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:33	1
Calcium	140		0.20		mg/L		05/12/21 08:23	05/12/21 22:33	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:33	1
Cobalt	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:33	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:33	1
Molybdenum	0.017		0.0050		mg/L		05/12/21 08:23	05/12/21 22:33	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 22:33	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	890		10		mg/L			05/07/21 05:59	1
Chloride	18		2.0		mg/L			05/17/21 15:47	1
Fluoride	0.31		0.10		mg/L			05/16/21 16:35	1
Sulfate	240		25		mg/L			05/17/21 13:04	5

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-04**  
Date Collected: 05/03/21 14:20  
Date Received: 05/05/21 11:56

**Lab Sample ID: 500-198657-4**  
Matrix: Water

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.026		0.010		mg/L		05/12/21 08:23	05/12/21 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:36	1
Arsenic	0.0030		0.0010		mg/L		05/12/21 08:23	05/12/21 22:36	1
Barium	0.046		0.0025		mg/L		05/12/21 08:23	05/12/21 22:36	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:36	1
Boron	5.1		1.0		mg/L		05/12/21 08:23	05/17/21 14:41	20
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:36	1
Calcium	310		4.0		mg/L		05/12/21 08:23	05/17/21 14:41	20
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:36	1
Cobalt	0.0019		0.0010		mg/L		05/12/21 08:23	05/12/21 22:36	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:36	1
Molybdenum	0.026		0.0050		mg/L		05/12/21 08:23	05/12/21 22:36	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 22:36	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		10		mg/L			05/07/21 06:02	1
Chloride	28		2.0		mg/L			05/17/21 15:47	1
Fluoride	0.36		0.10		mg/L			05/16/21 16:42	1
Sulfate	910		100		mg/L			05/17/21 13:14	20

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-07**

**Lab Sample ID: 500-198657-5**

Date Collected: 05/04/21 13:00

Matrix: Water

Date Received: 05/05/21 11:56

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.026		0.010		mg/L		05/12/21 08:23	05/12/21 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:47	1
Arsenic	0.0022		0.0010		mg/L		05/12/21 08:23	05/12/21 22:47	1
Barium	0.063		0.0025		mg/L		05/12/21 08:23	05/12/21 22:47	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:47	1
Boron	4.0		1.0		mg/L		05/12/21 08:23	05/17/21 14:44	20
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:47	1
Calcium	130		0.20		mg/L		05/12/21 08:23	05/12/21 22:47	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:47	1
Cobalt	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:47	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:47	1
Molybdenum	0.051		0.0050		mg/L		05/12/21 08:23	05/12/21 22:47	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 22:47	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			05/07/21 06:04	1
Chloride	110		10		mg/L			05/17/21 15:48	5
Fluoride	0.69		0.10		mg/L			05/16/21 16:49	1
Sulfate	490		100		mg/L			05/17/21 13:14	20

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-08**

**Lab Sample ID: 500-198657-6**

Date Collected: 05/04/21 14:26

Matrix: Water

Date Received: 05/05/21 11:56

## Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.015		0.010		mg/L		05/12/21 08:23	05/12/21 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:50	1
Arsenic	0.0073		0.0010		mg/L		05/12/21 08:23	05/12/21 22:50	1
Barium	0.081		0.0025		mg/L		05/12/21 08:23	05/12/21 22:50	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:50	1
Boron	2.6		0.50		mg/L		05/12/21 08:23	05/17/21 14:48	10
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:50	1
Calcium	190		0.20		mg/L		05/12/21 08:23	05/12/21 22:50	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:50	1
Cobalt	0.0015		0.0010		mg/L		05/12/21 08:23	05/12/21 22:50	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:50	1
Molybdenum	0.047		0.0050		mg/L		05/12/21 08:23	05/12/21 22:50	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 22:50	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:50	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:23	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1900		10		mg/L			05/07/21 06:07	1
Chloride	290		40		mg/L			05/17/21 15:48	20
Fluoride	0.51		0.10		mg/L			05/16/21 16:55	1
Sulfate	490		100		mg/L			05/17/21 13:15	20

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-13**  
Date Collected: 05/04/21 15:05  
Date Received: 05/05/21 11:56

**Lab Sample ID: 500-198657-7**  
Matrix: Water

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.013		0.010		mg/L		05/12/21 08:23	05/12/21 19:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:53	1
Arsenic	0.0011		0.0010		mg/L		05/12/21 08:23	05/12/21 22:53	1
Barium	0.14		0.0025		mg/L		05/12/21 08:23	05/12/21 22:53	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:53	1
Boron	1.7		0.50		mg/L		05/12/21 08:23	05/17/21 14:51	10
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:53	1
Calcium	150		0.20		mg/L		05/12/21 08:23	05/12/21 22:53	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:53	1
Cobalt	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:53	1
Lead	0.00054		0.00050		mg/L		05/12/21 08:23	05/12/21 22:53	1
Molybdenum	0.025		0.0050		mg/L		05/12/21 08:23	05/12/21 22:53	1
Selenium	0.0032		0.0025		mg/L		05/12/21 08:23	05/12/21 22:53	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/07/21 06:10	1
Chloride	210		10		mg/L			05/17/21 15:49	5
Fluoride	0.29		0.10		mg/L			05/16/21 17:16	1
Sulfate	280		100		mg/L			05/17/21 13:16	20



# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-198657-8**

Date Collected: 05/04/21 13:40

Matrix: Water

Date Received: 05/05/21 11:56

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.046		0.010		mg/L		05/12/21 08:23	05/12/21 19:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:57	1
Arsenic	0.0035		0.0010		mg/L		05/12/21 08:23	05/12/21 22:57	1
Barium	0.097		0.0025		mg/L		05/12/21 08:23	05/12/21 22:57	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:57	1
Boron	4.8		1.0		mg/L		05/12/21 08:23	05/17/21 14:54	20
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:57	1
Calcium	130		0.20		mg/L		05/12/21 08:23	05/12/21 22:57	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:57	1
Cobalt	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:57	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:57	1
Molybdenum	0.053		0.0050		mg/L		05/12/21 08:23	05/12/21 22:57	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 22:57	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/07/21 06:12	1
Chloride	110		10		mg/L			05/17/21 15:49	5
Fluoride	0.44		0.10		mg/L			05/16/21 17:23	1
Sulfate	490		100		mg/L			05/17/21 13:16	20

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-198657-9**

Date Collected: 05/04/21 12:29

Matrix: Water

Date Received: 05/05/21 11:56

### Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.025		0.010		mg/L		05/12/21 08:23	05/12/21 20:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 23:00	1
Arsenic	0.0015		0.0010		mg/L		05/12/21 08:23	05/12/21 23:00	1
Barium	0.18		0.0025		mg/L		05/12/21 08:23	05/12/21 23:00	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 23:00	1
Boron	3.1		0.50		mg/L		05/12/21 08:23	05/17/21 14:58	10
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 23:00	1
Calcium	180		0.20		mg/L		05/12/21 08:23	05/12/21 23:00	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 23:00	1
Cobalt	0.0012		0.0010		mg/L		05/12/21 08:23	05/12/21 23:00	1
Lead	0.0013		0.00050		mg/L		05/12/21 08:23	05/12/21 23:00	1
Molybdenum	0.030		0.0050		mg/L		05/12/21 08:23	05/12/21 23:00	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 23:00	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 23:00	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:34	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			05/07/21 06:15	1
Chloride	140		10		mg/L			05/17/21 15:49	5
Fluoride	0.34		0.10		mg/L			05/16/21 17:30	1
Sulfate	510		100		mg/L			05/17/21 13:18	20

# Client Sample Results

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

Job ID: 500-198657-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-198657-10**

Date Collected: 05/03/21 00:00

Matrix: Water

Date Received: 05/05/21 11:56

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.047		0.010		mg/L		05/12/21 08:23	05/12/21 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 23:04	1
Arsenic	0.010		0.0010		mg/L		05/12/21 08:23	05/12/21 23:04	1
Barium	0.062		0.0025		mg/L		05/12/21 08:23	05/12/21 23:04	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 23:04	1
Boron	5.6		1.0		mg/L		05/12/21 08:23	05/17/21 15:01	20
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 23:04	1
Calcium	90		0.20		mg/L		05/12/21 08:23	05/12/21 23:04	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 23:04	1
Cobalt	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 23:04	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 23:04	1
Molybdenum	0.077		0.0050		mg/L		05/12/21 08:23	05/12/21 23:04	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 23:04	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 23:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 09:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/07/21 06:17	1
Chloride	28		2.0		mg/L			05/17/21 15:49	1
Fluoride	0.41		0.10		mg/L			05/16/21 17:37	1
Sulfate	510		100		mg/L			05/17/21 13:20	20

# Definitions/Glossary

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

Job ID: 500-198657-1

## 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.
F1	MS and/or MSD recovery exceeds control limits.

## Glossary

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

# QC Association Summary

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

Job ID: 500-198657-1

## Metals

### Prep Batch: 598285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total Recoverable	Water	3005A	
500-198657-2	MW-02	Total Recoverable	Water	3005A	
500-198657-3	MW-03	Total Recoverable	Water	3005A	
500-198657-4	MW-04	Total Recoverable	Water	3005A	
500-198657-5	MW-07	Total Recoverable	Water	3005A	
500-198657-6	MW-08	Total Recoverable	Water	3005A	
500-198657-7	MW-13	Total Recoverable	Water	3005A	
500-198657-8	MW-14	Total Recoverable	Water	3005A	
500-198657-9	MW-15	Total Recoverable	Water	3005A	
500-198657-10	Duplicate	Total Recoverable	Water	3005A	
MB 500-598285/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-598285/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-198657-1 MS	MW-01	Total Recoverable	Water	3005A	
500-198657-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-198657-1 DU	MW-01	Total Recoverable	Water	3005A	

### Prep Batch: 598325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total/NA	Water	7470A	
500-198657-2	MW-02	Total/NA	Water	7470A	
500-198657-3	MW-03	Total/NA	Water	7470A	
500-198657-4	MW-04	Total/NA	Water	7470A	
500-198657-5	MW-07	Total/NA	Water	7470A	
500-198657-6	MW-08	Total/NA	Water	7470A	
500-198657-7	MW-13	Total/NA	Water	7470A	
500-198657-8	MW-14	Total/NA	Water	7470A	
500-198657-9	MW-15	Total/NA	Water	7470A	
500-198657-10	Duplicate	Total/NA	Water	7470A	
MB 500-598325/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-598325/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 598497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total Recoverable	Water	6010C	598285
500-198657-2	MW-02	Total Recoverable	Water	6010C	598285
500-198657-3	MW-03	Total Recoverable	Water	6010C	598285
500-198657-4	MW-04	Total Recoverable	Water	6010C	598285
500-198657-5	MW-07	Total Recoverable	Water	6010C	598285
500-198657-6	MW-08	Total Recoverable	Water	6010C	598285
500-198657-7	MW-13	Total Recoverable	Water	6010C	598285
500-198657-8	MW-14	Total Recoverable	Water	6010C	598285
500-198657-9	MW-15	Total Recoverable	Water	6010C	598285
500-198657-10	Duplicate	Total Recoverable	Water	6010C	598285
MB 500-598285/1-A	Method Blank	Total Recoverable	Water	6010C	598285
LCS 500-598285/2-A	Lab Control Sample	Total Recoverable	Water	6010C	598285
500-198657-1 MS	MW-01	Total Recoverable	Water	6010C	598285
500-198657-1 MSD	MW-01	Total Recoverable	Water	6010C	598285
500-198657-1 DU	MW-01	Total Recoverable	Water	6010C	598285

# QC Association Summary

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

Job ID: 500-198657-1

## Metals

### Analysis Batch: 598604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total/NA	Water	7470A	598325
500-198657-2	MW-02	Total/NA	Water	7470A	598325
500-198657-3	MW-03	Total/NA	Water	7470A	598325
500-198657-4	MW-04	Total/NA	Water	7470A	598325
500-198657-5	MW-07	Total/NA	Water	7470A	598325
500-198657-6	MW-08	Total/NA	Water	7470A	598325
500-198657-7	MW-13	Total/NA	Water	7470A	598325
500-198657-8	MW-14	Total/NA	Water	7470A	598325
500-198657-9	MW-15	Total/NA	Water	7470A	598325
500-198657-10	Duplicate	Total/NA	Water	7470A	598325
MB 500-598325/12-A	Method Blank	Total/NA	Water	7470A	598325
LCS 500-598325/13-A	Lab Control Sample	Total/NA	Water	7470A	598325

### Analysis Batch: 598621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total Recoverable	Water	6020A	598285
500-198657-2	MW-02	Total Recoverable	Water	6020A	598285
500-198657-3	MW-03	Total Recoverable	Water	6020A	598285
500-198657-4	MW-04	Total Recoverable	Water	6020A	598285
500-198657-5	MW-07	Total Recoverable	Water	6020A	598285
500-198657-6	MW-08	Total Recoverable	Water	6020A	598285
500-198657-7	MW-13	Total Recoverable	Water	6020A	598285
500-198657-8	MW-14	Total Recoverable	Water	6020A	598285
500-198657-9	MW-15	Total Recoverable	Water	6020A	598285
500-198657-10	Duplicate	Total Recoverable	Water	6020A	598285
MB 500-598285/1-A	Method Blank	Total Recoverable	Water	6020A	598285
LCS 500-598285/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598285
500-198657-1 MS	MW-01	Total Recoverable	Water	6020A	598285
500-198657-1 MSD	MW-01	Total Recoverable	Water	6020A	598285
500-198657-1 DU	MW-01	Total Recoverable	Water	6020A	598285

### Analysis Batch: 599524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total Recoverable	Water	6020A	598285
500-198657-2	MW-02	Total Recoverable	Water	6020A	598285
500-198657-3	MW-03	Total Recoverable	Water	6020A	598285
500-198657-4	MW-04	Total Recoverable	Water	6020A	598285
500-198657-5	MW-07	Total Recoverable	Water	6020A	598285
500-198657-6	MW-08	Total Recoverable	Water	6020A	598285
500-198657-7	MW-13	Total Recoverable	Water	6020A	598285
500-198657-8	MW-14	Total Recoverable	Water	6020A	598285
500-198657-9	MW-15	Total Recoverable	Water	6020A	598285
500-198657-10	Duplicate	Total Recoverable	Water	6020A	598285
MB 500-598285/1-A	Method Blank	Total Recoverable	Water	6020A	598285
LCS 500-598285/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598285
500-198657-1 MS	MW-01	Total Recoverable	Water	6020A	598285
500-198657-1 MSD	MW-01	Total Recoverable	Water	6020A	598285
500-198657-1 DU	MW-01	Total Recoverable	Water	6020A	598285

# QC Association Summary

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

Job ID: 500-198657-1

## General Chemistry

### Analysis Batch: 597339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total/NA	Water	SM 2540C	
500-198657-2	MW-02	Total/NA	Water	SM 2540C	
500-198657-3	MW-03	Total/NA	Water	SM 2540C	
500-198657-4	MW-04	Total/NA	Water	SM 2540C	
500-198657-5	MW-07	Total/NA	Water	SM 2540C	
500-198657-6	MW-08	Total/NA	Water	SM 2540C	
500-198657-7	MW-13	Total/NA	Water	SM 2540C	
500-198657-8	MW-14	Total/NA	Water	SM 2540C	
500-198657-9	MW-15	Total/NA	Water	SM 2540C	
500-198657-10	Duplicate	Total/NA	Water	SM 2540C	
MB 500-597339/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-597339/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-198657-1 MS	MW-01	Total/NA	Water	SM 2540C	
500-198657-1 DU	MW-01	Total/NA	Water	SM 2540C	
500-198657-2 DU	MW-02	Total/NA	Water	SM 2540C	

### Analysis Batch: 599123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total/NA	Water	SM 4500 F C	
500-198657-2	MW-02	Total/NA	Water	SM 4500 F C	
500-198657-3	MW-03	Total/NA	Water	SM 4500 F C	
500-198657-4	MW-04	Total/NA	Water	SM 4500 F C	
500-198657-5	MW-07	Total/NA	Water	SM 4500 F C	
500-198657-6	MW-08	Total/NA	Water	SM 4500 F C	
500-198657-7	MW-13	Total/NA	Water	SM 4500 F C	
500-198657-8	MW-14	Total/NA	Water	SM 4500 F C	
500-198657-9	MW-15	Total/NA	Water	SM 4500 F C	
500-198657-10	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-599123/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-599123/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-198657-1 MS	MW-01	Total/NA	Water	SM 4500 F C	
500-198657-1 MSD	MW-01	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 599407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-198657-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-198657-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-198657-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-198657-5	MW-07	Total/NA	Water	SM 4500 SO4 E	
500-198657-6	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-198657-7	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-198657-8	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-198657-9	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-198657-10	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-599407/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-599407/50	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-599407/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-599407/51	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-198657-1 MS	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-198657-1 MSD	MW-01	Total/NA	Water	SM 4500 SO4 E	

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# QC Association Summary

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

Job ID: 500-198657-1

## General Chemistry

### Analysis Batch: 599408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-198657-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-198657-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-198657-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-198657-5	MW-07	Total/NA	Water	SM 4500 Cl- E	
500-198657-6	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-198657-7	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-198657-8	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-198657-9	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-198657-10	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-599408/40	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-599408/41	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-198657-1 MS	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-198657-1 MSD	MW-01	Total/NA	Water	SM 4500 Cl- E	



# QC Sample Results

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

Job ID: 500-198657-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-598285/1-A**  
**Matrix: Water**  
**Analysis Batch: 598497**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/12/21 08:23	05/12/21 19:02	1

**Lab Sample ID: LCS 500-598285/2-A**  
**Matrix: Water**  
**Analysis Batch: 598497**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.516		mg/L		103	80 - 120

**Lab Sample ID: 500-198657-1 MS**  
**Matrix: Water**  
**Analysis Batch: 598497**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.034		0.500	0.562		mg/L		106	75 - 125

**Lab Sample ID: 500-198657-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 598497**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	0.034		0.500	0.562		mg/L		106	75 - 125	0	20

**Lab Sample ID: 500-198657-1 DU**  
**Matrix: Water**  
**Analysis Batch: 598497**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.034		0.0317		mg/L		8	20

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

**Lab Sample ID: MB 500-598285/1-A**  
**Matrix: Water**  
**Analysis Batch: 598621**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/12/21 08:23	05/12/21 22:05	1
Arsenic	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:05	1
Barium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 22:05	1
Beryllium	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:05	1
Cadmium	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:05	1
Calcium	<0.20		0.20		mg/L		05/12/21 08:23	05/12/21 22:05	1
Chromium	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:05	1
Cobalt	<0.0010		0.0010		mg/L		05/12/21 08:23	05/12/21 22:05	1
Lead	<0.00050		0.00050		mg/L		05/12/21 08:23	05/12/21 22:05	1
Molybdenum	<0.0050		0.0050		mg/L		05/12/21 08:23	05/12/21 22:05	1
Selenium	<0.0025		0.0025		mg/L		05/12/21 08:23	05/12/21 22:05	1
Thallium	<0.0020		0.0020		mg/L		05/12/21 08:23	05/12/21 22:05	1

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# QC Sample Results

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

Job ID: 500-198657-1

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

**Lab Sample ID: MB 500-598285/1-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		05/12/21 08:23	05/17/21 14:03	1

**Lab Sample ID: LCS 500-598285/2-A**  
**Matrix: Water**  
**Analysis Batch: 598621**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.485		mg/L		97	80 - 120
Arsenic	0.100	0.0946		mg/L		95	80 - 120
Barium	2.00	1.96		mg/L		98	80 - 120
Beryllium	0.0500	0.0458		mg/L		92	80 - 120
Cadmium	0.0500	0.0479		mg/L		96	80 - 120
Calcium	10.0	9.44		mg/L		94	80 - 120
Chromium	0.200	0.194		mg/L		97	80 - 120
Cobalt	0.500	0.481		mg/L		96	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Molybdenum	1.00	0.948		mg/L		95	80 - 120
Selenium	0.100	0.0979		mg/L		98	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

**Lab Sample ID: LCS 500-598285/2-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.01		mg/L		101	80 - 120

**Lab Sample ID: 500-198657-1 MS**  
**Matrix: Water**  
**Analysis Batch: 598621**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.484		mg/L		97	75 - 125
Arsenic	<0.0010		0.100	0.0972		mg/L		97	75 - 125
Barium	0.095		2.00	2.11		mg/L		101	75 - 125
Beryllium	<0.0010		0.0500	0.0439		mg/L		88	75 - 125
Cadmium	<0.00050		0.0500	0.0470		mg/L		93	75 - 125
Calcium	170		10.0	179	4	mg/L		76	75 - 125
Chromium	<0.0050		0.200	0.186		mg/L		93	75 - 125
Cobalt	<0.0010		0.500	0.450		mg/L		90	75 - 125
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125
Molybdenum	0.012		1.00	0.953		mg/L		94	75 - 125
Selenium	0.0093		0.100	0.109		mg/L		100	75 - 125
Thallium	<0.0020		0.100	0.107		mg/L		107	75 - 125

# QC Sample Results

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

Job ID: 500-198657-1

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

**Lab Sample ID: 500-198657-1 MS**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	2.6		1.00	3.63		mg/L		100	75 - 125

**Lab Sample ID: 500-198657-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 598621**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.492		mg/L		98	75 - 125	2	20
Arsenic	<0.0010		0.100	0.0978		mg/L		97	75 - 125	1	20
Barium	0.095		2.00	2.10		mg/L		100	75 - 125	0	20
Beryllium	<0.0010		0.0500	0.0446		mg/L		89	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0471		mg/L		94	75 - 125	0	20
Calcium	170		10.0	179	4	mg/L		72	75 - 125	0	20
Chromium	<0.0050		0.200	0.184		mg/L		92	75 - 125	1	20
Cobalt	<0.0010		0.500	0.452		mg/L		90	75 - 125	1	20
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125	0	20
Molybdenum	0.012		1.00	0.965		mg/L		95	75 - 125	1	20
Selenium	0.0093		0.100	0.108		mg/L		99	75 - 125	1	20
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125	2	20

**Lab Sample ID: 500-198657-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	2.6		1.00	3.67		mg/L		104	75 - 125	1	20

**Lab Sample ID: 500-198657-1 DU**  
**Matrix: Water**  
**Analysis Batch: 598621**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598285**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.095		0.0975		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	170		171		mg/L		0.4	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
Molybdenum	0.012		0.0128		mg/L		2	20
Selenium	0.0093		0.00878		mg/L		6	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

# QC Sample Results

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

Job ID: 500-198657-1

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

Lab Sample ID: 500-198657-1 DU  
Matrix: Water  
Analysis Batch: 599524

Client Sample ID: MW-01  
Prep Type: Total Recoverable  
Prep Batch: 598285

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	2.6		2.65		mg/L		0.7	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-598325/12-A  
Matrix: Water  
Analysis Batch: 598604

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 598325

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/12/21 09:40	05/13/21 08:34	1

Lab Sample ID: LCS 500-598325/13-A  
Matrix: Water  
Analysis Batch: 598604

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 598325  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00187		mg/L		94	80 - 120

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

Lab Sample ID: MB 500-597339/1  
Matrix: Water  
Analysis Batch: 597339

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			05/07/21 05:39	1

Lab Sample ID: LCS 500-597339/2  
Matrix: Water  
Analysis Batch: 597339

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	250	236		mg/L		94	80 - 120

Lab Sample ID: 500-198657-1 MS  
Matrix: Water  
Analysis Batch: 597339

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	1200		250	1400	4	mg/L		83	75 - 125

Lab Sample ID: 500-198657-1 DU  
Matrix: Water  
Analysis Batch: 597339

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	1200		1150		mg/L		3	5

# QC Sample Results

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

Job ID: 500-198657-1

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

Lab Sample ID: 500-198657-2 DU  
Matrix: Water  
Analysis Batch: 597339

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	1100		1050		mg/L		2	5

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

Lab Sample ID: MB 500-599408/40  
Matrix: Water  
Analysis Batch: 599408

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			05/17/21 15:46	1

Lab Sample ID: LCS 500-599408/41  
Matrix: Water  
Analysis Batch: 599408

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	21.4		mg/L		107	85 - 115

Lab Sample ID: 500-198657-1 MS  
Matrix: Water  
Analysis Batch: 599408

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	21	F1	20.0	35.2	F1	mg/L		70	75 - 125

Lab Sample ID: 500-198657-1 MSD  
Matrix: Water  
Analysis Batch: 599408

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	21	F1	20.0	39.2		mg/L		90	75 - 125	11	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-599123/3  
Matrix: Water  
Analysis Batch: 599123

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			05/16/21 15:54	1

Lab Sample ID: LCS 500-599123/4  
Matrix: Water  
Analysis Batch: 599123

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	10.9		mg/L		109	80 - 120

# QC Sample Results

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

Job ID: 500-198657-1

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

**Lab Sample ID: 500-198657-1 MS**  
**Matrix: Water**  
**Analysis Batch: 599123**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.62		5.00	6.15		mg/L		111	75 - 125

**Lab Sample ID: 500-198657-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 599123**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.62		5.00	6.18		mg/L		111	75 - 125	0	20

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

**Lab Sample ID: MB 500-599407/15**  
**Matrix: Water**  
**Analysis Batch: 599407**

**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			05/17/21 12:53	1

**Lab Sample ID: MB 500-599407/50**  
**Matrix: Water**  
**Analysis Batch: 599407**

**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			05/17/21 13:18	1

**Lab Sample ID: LCS 500-599407/16**  
**Matrix: Water**  
**Analysis Batch: 599407**

**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	20.2		mg/L		101	80 - 120

**Lab Sample ID: LCS 500-599407/51**  
**Matrix: Water**  
**Analysis Batch: 599407**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.3		mg/L		101	80 - 120

**Lab Sample ID: 500-198657-1 MS**  
**Matrix: Water**  
**Analysis Batch: 599407**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	390		20.0	400	4	mg/L		25	75 - 125

# QC Sample Results

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

Job ID: 500-198657-1

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

Lab Sample ID: 500-198657-1 MSD  
Matrix: Water  
Analysis Batch: 599407

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	390		20.0	409	4	mg/L		69	75 - 125	2	20

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**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**

eurofins Environment Testing America

<b>Client Information</b>	Sampler: <i>Erin Bulson</i>	Lab PM: Mockler Diana J	Carrier Tracking No(s)	COC No: 500-91257-40699 1
Client Contact: Richard Gnat	Phone	E-Mail: Diana Mockler@Eurofinset.com	State of Origin	Page: Page 1 of 1

Company: KPRG and Associates Inc	PWSID	<b>Analysis Requested</b>	Job #: <i>500-198657</i>
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Address: 14665 West Lisbon Road Suite 1A City: Brookfield State Zip: WI 53005 Phone: 500-198657 COC Email: richardg@kprginc.com	Due Date Requested TAT Requested (days) Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 4502041043 WO #	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	Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:
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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)	Total Number of Containers	Special Instructions/Note
<del>1</del> MW-01	5/3	1201		Water		X	X	X
<del>2</del> MW-02	5/3	1340		Water				
<del>3</del> MW-03	5/3	1500		Water				
<del>4</del> MW-04	5/3	1420		Water				
<del>5</del> MW-07	5/4	1300		Water				
<del>6</del> MW-08	5/4	1426		Water				
<del>7</del> MW-13	5/4	1505		Water				
<del>8</del> MW-14	5/4	1340		Water				
<del>9</del> MW-15	5/4	1229		Water				
<del>10</del> Duplicate	5/3	-		Water				

<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
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Deliverable Requested I II III IV Other (specify)	Special Instructions/QC Requirements
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Empty Kit Relinquished by:	Date	Time	Method of Shipment
Relinquished by: <i>Erin Bulson</i>	Date/Time: 5/4/21 4:00 PM	Company: KPRG	Received by: <i>A. H.</i> Date/Time: 5/4/21 4 PM Company: KPRG
Relinquished by: <i>R. Neal</i>	Date/Time: 5/5/21 11:12 AM	Company: E4	Received by: <i>R. Neal</i> Date/Time: 5/5/21 11/2 Company: E4
Relinquished by: <i>P. Neal</i>	Date/Time: 5/5/21 11:56	Company: E4	Received by: <i>Shirley Scott</i> Date/Time: 5/5/21 11:56 Company: E4

Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: <i>5.6, 4.8, 5.8, 4.7</i>
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# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198657-1

**Login Number: 198657**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

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	5.6,4.8,5.8,4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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

Job ID: 500-198657-1

**Client Sample ID: MW-01**  
**Date Collected: 05/03/21 12:01**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 19:09	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 22:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 14:10	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:13	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 05:46	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	599408	05/17/21 15:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 16:08	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:11	MS	TAL CHI

**Client Sample ID: MW-02**  
**Date Collected: 05/03/21 13:40**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 19:34	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 22:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	599524	05/17/21 14:34	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:15	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 05:54	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	599408	05/17/21 15:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 16:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:12	MS	TAL CHI

**Client Sample ID: MW-03**  
**Date Collected: 05/03/21 15:00**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 19:38	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 22:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 14:37	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:17	MJG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-198657-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-198657-3**

**Date Collected: 05/03/21 15:00**

**Matrix: Water**

**Date Received: 05/05/21 11:56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 05:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	599408	05/17/21 15:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 16:35	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	599407	05/17/21 13:04	MS	TAL CHI

**Client Sample ID: MW-04**

**Lab Sample ID: 500-198657-4**

**Date Collected: 05/03/21 14:20**

**Matrix: Water**

**Date Received: 05/05/21 11:56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 19:41	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 22:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	599524	05/17/21 14:41	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:19	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 06:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	599408	05/17/21 15:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 16:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:14	MS	TAL CHI

**Client Sample ID: MW-07**

**Lab Sample ID: 500-198657-5**

**Date Collected: 05/04/21 13:00**

**Matrix: Water**

**Date Received: 05/05/21 11:56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 19:45	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 22:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	599524	05/17/21 14:44	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 06:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	599408	05/17/21 15:48	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 16:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:14	MS	TAL CHI

# Lab Chronicle

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

Job ID: 500-198657-1

**Client Sample ID: MW-08**  
**Date Collected: 05/04/21 14:26**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 19:49	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 22:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 14:48	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 06:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		20	599408	05/17/21 15:48	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 16:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:15	MS	TAL CHI

**Client Sample ID: MW-13**  
**Date Collected: 05/04/21 15:05**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 19:53	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 22:53	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 14:51	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:26	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 06:10	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	599408	05/17/21 15:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 17:16	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:16	MS	TAL CHI

**Client Sample ID: MW-14**  
**Date Collected: 05/04/21 13:40**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 19:56	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 22:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	599524	05/17/21 14:54	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:28	MJG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-198657-1

**Client Sample ID: MW-14**  
**Date Collected: 05/04/21 13:40**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 06:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	599408	05/17/21 15:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 17:23	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:16	MS	TAL CHI

**Client Sample ID: MW-15**  
**Date Collected: 05/04/21 12:29**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 20:11	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 23:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 14:58	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 06:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	599408	05/17/21 15:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 17:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:18	MS	TAL CHI

**Client Sample ID: Duplicate**  
**Date Collected: 05/03/21 00:00**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	598497	05/12/21 20:14	EEN	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	598621	05/12/21 23:04	FXG	TAL CHI
Total Recoverable	Prep	3005A			598285	05/12/21 08:23	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	599524	05/17/21 15:01	FXG	TAL CHI
Total/NA	Prep	7470A			598325	05/12/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	598604	05/13/21 09:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 06:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	599408	05/17/21 15:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599123	05/16/21 17:37	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	599407	05/17/21 13:20	MS	TAL CHI

**Laboratory References:**

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

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-198657-2  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:  
6/4/2021 9:19:00 AM

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

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

Job ID: 500-198657-2

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## Job ID: 500-198657-2

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### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

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#### Job Narrative 500-198657-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/5/2021 11:56 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 4.7° C, 4.8° C, 5.6° C and 5.8° C.

#### RAD

Methods 903.0, 9315: Radium-226 prep batch 160-509356:

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-01 (500-198657-1), MW-02 (500-198657-2), MW-03 (500-198657-3), MW-04 (500-198657-4), MW-07 (500-198657-5), MW-08 (500-198657-6), MW-13 (500-198657-7), MW-14 (500-198657-8), MW-15 (500-198657-9), Duplicate (500-198657-10), (LCS 160-509356/1-A), (MB 160-509356/24-A) and (500-198657-D-10-A DU)

Methods 904.0, 9320: Radium-228 Batch 509365

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-01 (500-198657-1), MW-02 (500-198657-2), MW-03 (500-198657-3), MW-04 (500-198657-4), MW-07 (500-198657-5), MW-08 (500-198657-6), MW-13 (500-198657-7), MW-14 (500-198657-8), MW-15 (500-198657-9), Duplicate (500-198657-10), (LCS 160-509365/1-A), (MB 160-509365/24-A) and (500-198657-D-10-B DU)

Method PrecSep\_0:

Method PrecSep\_0:

Method PrecSep-21:

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

Job ID: 500-198657-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SL = Eurofins TestAmerica, 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

Job ID: 500-198657-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198657-1	MW-01	Water	05/03/21 12:01	05/05/21 11:56	
500-198657-2	MW-02	Water	05/03/21 13:40	05/05/21 11:56	
500-198657-3	MW-03	Water	05/03/21 15:00	05/05/21 11:56	
500-198657-4	MW-04	Water	05/03/21 14:20	05/05/21 11:56	
500-198657-5	MW-07	Water	05/04/21 13:00	05/05/21 11:56	
500-198657-6	MW-08	Water	05/04/21 14:26	05/05/21 11:56	
500-198657-7	MW-13	Water	05/04/21 15:05	05/05/21 11:56	
500-198657-8	MW-14	Water	05/04/21 13:40	05/05/21 11:56	
500-198657-9	MW-15	Water	05/04/21 12:29	05/05/21 11:56	
500-198657-10	Duplicate	Water	05/03/21 00:00	05/05/21 11:56	

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-01**

**Lab Sample ID: 500-198657-1**

Date Collected: 05/03/21 12:01

Matrix: Water

Date Received: 05/05/21 11:56

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.199	U	0.162	0.163	1.00	0.243	pCi/L	05/12/21 13:58	06/03/21 07:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					05/12/21 13:58	06/03/21 07:40	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.424	U	0.285	0.287	1.00	0.439	pCi/L	05/12/21 14:38	06/01/21 13:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					05/12/21 14:38	06/01/21 13:01	1
Y Carrier	88.2		40 - 110					05/12/21 14:38	06/01/21 13:01	1

## Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.623</b>		0.328	0.330	5.00	0.439	pCi/L		06/03/21 21:24	1

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-02**  
Date Collected: 05/03/21 13:40  
Date Received: 05/05/21 11:56

**Lab Sample ID: 500-198657-2**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.542</b>		0.229	0.234	1.00	0.267	pCi/L	05/12/21 13:58	06/03/21 07:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.3		40 - 110					05/12/21 13:58	06/03/21 07:40	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.757</b>		0.367	0.373	1.00	0.538	pCi/L	05/12/21 14:38	06/01/21 13:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.3		40 - 110					05/12/21 14:38	06/01/21 13:16	1
Y Carrier	85.2		40 - 110					05/12/21 14:38	06/01/21 13:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.30</b>		0.433	0.440	5.00	0.538	pCi/L		06/03/21 21:24	1

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-03**  
Date Collected: 05/03/21 15:00  
Date Received: 05/05/21 11:56

**Lab Sample ID: 500-198657-3**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.384</b>		0.197	0.200	1.00	0.244	pCi/L	05/12/21 13:58	06/03/21 07:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					05/12/21 13:58	06/03/21 07:40	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.608</b>		0.310	0.315	1.00	0.449	pCi/L	05/12/21 14:38	06/01/21 13:16	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					05/12/21 14:38	06/01/21 13:16	1
Y Carrier	85.6		40 - 110					05/12/21 14:38	06/01/21 13:16	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.993</b>		0.367	0.373	5.00	0.449	pCi/L		06/03/21 21:24	1

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-04**  
Date Collected: 05/03/21 14:20  
Date Received: 05/05/21 11:56

**Lab Sample ID: 500-198657-4**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.411</b>		0.181	0.185	1.00	0.201	pCi/L	05/12/21 13:58	06/03/21 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					05/12/21 13:58	06/03/21 07:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.752</b>		0.304	0.312	1.00	0.420	pCi/L	05/12/21 14:38	06/01/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.2		40 - 110					05/12/21 14:38	06/01/21 13:17	1
Y Carrier	86.7		40 - 110					05/12/21 14:38	06/01/21 13:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.16</b>		0.354	0.363	5.00	0.420	pCi/L		06/03/21 21:24	1

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-07**

**Lab Sample ID: 500-198657-5**

Date Collected: 05/04/21 13:00

Matrix: Water

Date Received: 05/05/21 11:56

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.518		0.210	0.216	1.00	0.234	pCi/L	05/12/21 13:58	06/03/21 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					05/12/21 13:58	06/03/21 07:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.434	U	0.305	0.307	1.00	0.474	pCi/L	05/12/21 14:38	06/01/21 13:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					05/12/21 14:38	06/01/21 13:17	1
Y Carrier	87.1		40 - 110					05/12/21 14:38	06/01/21 13:17	1

**Method: 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	0.952		0.370	0.375	5.00	0.474	pCi/L		06/03/21 21:24	1

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-08**

**Lab Sample ID: 500-198657-6**

Date Collected: 05/04/21 14:26

Matrix: Water

Date Received: 05/05/21 11:56

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.331</b>		0.182	0.184	1.00	0.230	pCi/L	05/12/21 13:58	06/03/21 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					05/12/21 13:58	06/03/21 07:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.542</b>		0.319	0.323	1.00	0.481	pCi/L	05/12/21 14:38	06/01/21 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					05/12/21 14:38	06/01/21 13:18	1
Y Carrier	88.6		40 - 110					05/12/21 14:38	06/01/21 13:18	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.873</b>		0.367	0.372	5.00	0.481	pCi/L		06/03/21 21:24	1



# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-13**  
**Date Collected: 05/04/21 15:05**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-7**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.586		0.255	0.261	1.00	0.286	pCi/L	05/12/21 13:58	06/03/21 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.0		40 - 110					05/12/21 13:58	06/03/21 07:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.430	U	0.364	0.366	1.00	0.580	pCi/L	05/12/21 14:38	06/01/21 13:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.0		40 - 110					05/12/21 14:38	06/01/21 13:18	1
Y Carrier	89.3		40 - 110					05/12/21 14:38	06/01/21 13:18	1

**Method: 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	1.02		0.444	0.450	5.00	0.580	pCi/L		06/03/21 21:24	1

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-14**

**Lab Sample ID: 500-198657-8**

Date Collected: 05/04/21 13:40

Matrix: Water

Date Received: 05/05/21 11:56

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0613	U	0.118	0.118	1.00	0.211	pCi/L	05/12/21 13:58	06/03/21 07:41	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	80.5		40 - 110					05/12/21 13:58	06/03/21 07:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.351	U	0.286	0.288	1.00	0.453	pCi/L	05/12/21 14:38	06/01/21 13:18	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	80.5		40 - 110					05/12/21 14:38	06/01/21 13:18	1
Y Carrier	86.4		40 - 110					05/12/21 14:38	06/01/21 13:18	1

**Method: 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	0.412	U	0.309	0.311	5.00	0.453	pCi/L		06/03/21 21:24	1

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: MW-15**

**Lab Sample ID: 500-198657-9**

Date Collected: 05/04/21 12:29

Matrix: Water

Date Received: 05/05/21 11:56

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.292		0.175	0.176	1.00	0.228	pCi/L	05/12/21 13:58	06/03/21 07:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					05/12/21 13:58	06/03/21 07:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.864		0.354	0.363	1.00	0.496	pCi/L	05/12/21 14:38	06/01/21 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					05/12/21 14:38	06/01/21 13:19	1
Y Carrier	86.4		40 - 110					05/12/21 14:38	06/01/21 13:19	1

**Method: 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	1.16		0.395	0.403	5.00	0.496	pCi/L		06/03/21 21:24	1

# Client Sample Results

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

Job ID: 500-198657-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-198657-10**

Date Collected: 05/03/21 00:00

Matrix: Water

Date Received: 05/05/21 11:56

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.406		0.188	0.191	1.00	0.223	pCi/L	05/12/21 13:58	06/03/21 07:41	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	83.8		40 - 110					05/12/21 13:58	06/03/21 07:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.829		0.319	0.328	1.00	0.436	pCi/L	05/12/21 14:38	06/01/21 13:19	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	83.8		40 - 110					05/12/21 14:38	06/01/21 13:19	1
Y Carrier	85.2		40 - 110					05/12/21 14:38	06/01/21 13:19	1

**Method: 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	1.24		0.370	0.380	5.00	0.436	pCi/L		06/03/21 21:24	1

# Definitions/Glossary

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

Job ID: 500-198657-2

## Qualifiers

### Rad

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Job ID: 500-198657-2

## Rad

### Prep Batch: 509356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total/NA	Water	PrecSep-21	
500-198657-2	MW-02	Total/NA	Water	PrecSep-21	
500-198657-3	MW-03	Total/NA	Water	PrecSep-21	
500-198657-4	MW-04	Total/NA	Water	PrecSep-21	
500-198657-5	MW-07	Total/NA	Water	PrecSep-21	
500-198657-6	MW-08	Total/NA	Water	PrecSep-21	
500-198657-7	MW-13	Total/NA	Water	PrecSep-21	
500-198657-8	MW-14	Total/NA	Water	PrecSep-21	
500-198657-9	MW-15	Total/NA	Water	PrecSep-21	
500-198657-10	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-509356/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-509356/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-198657-10 DU	Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 509365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198657-1	MW-01	Total/NA	Water	PrecSep_0	
500-198657-2	MW-02	Total/NA	Water	PrecSep_0	
500-198657-3	MW-03	Total/NA	Water	PrecSep_0	
500-198657-4	MW-04	Total/NA	Water	PrecSep_0	
500-198657-5	MW-07	Total/NA	Water	PrecSep_0	
500-198657-6	MW-08	Total/NA	Water	PrecSep_0	
500-198657-7	MW-13	Total/NA	Water	PrecSep_0	
500-198657-8	MW-14	Total/NA	Water	PrecSep_0	
500-198657-9	MW-15	Total/NA	Water	PrecSep_0	
500-198657-10	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-509365/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-509365/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-198657-10 DU	Duplicate	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-198657-2

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

**Lab Sample ID: MB 160-509356/24-A**  
**Matrix: Water**  
**Analysis Batch: 512601**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 509356**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.09182	U	0.126	0.126	1.00	0.213	pCi/L	05/12/21 13:58	06/03/21 07:43	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				05/12/21 13:58		06/03/21 07:43	
	76.9									

**Lab Sample ID: LCS 160-509356/1-A**  
**Matrix: Water**  
**Analysis Batch: 512655**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 509356**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.11		1.38	1.00	0.215	pCi/L	107	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	80.5								

**Lab Sample ID: 500-198657-10 DU**  
**Matrix: Water**  
**Analysis Batch: 512601**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 509356**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.406		0.3920		0.175	1.00	0.184	pCi/L	0.04	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	85.3									

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

**Lab Sample ID: MB 160-509365/24-A**  
**Matrix: Water**  
**Analysis Batch: 512418**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 509365**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.1657	U	0.240	0.240	1.00	0.465	pCi/L	05/12/21 14:38	06/01/21 13:19	1
Carrier	MB	MB	Limits				Prepared		Analyzed	
Ba Carrier	%Yield	Qualifier	40 - 110				05/12/21 14:38		06/01/21 13:19	
	76.9									
Y Carrier	87.1		40 - 110				05/12/21 14:38		06/01/21 13:19	

# QC Sample Results

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

Job ID: 500-198657-2

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

**Lab Sample ID: LCS 160-509365/1-A**  
**Matrix: Water**  
**Analysis Batch: 512417**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 509365**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.67	8.961		1.10	1.00	0.434	pCi/L	93	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	80.5		40 - 110							
Y Carrier	89.0		40 - 110							

**Lab Sample ID: 500-198657-10 DU**  
**Matrix: Water**  
**Analysis Batch: 512418**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 509365**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium-228	0.829		0.2632	U	0.298	1.00	0.488	pCi/L	0.90	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	85.3		40 - 110							
Y Carrier	84.9		40 - 110							



**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**

eurofins Environment Testing America

<b>Client Information</b>	Sampler: <i>Erin Bulson</i>	Lab PM: Mockler Diana J	Carrier Tracking No(s)	COC No: 500-91257-40699 1
Client Contact: Richard Gnat	Phone	E-Mail: Diana Mockler@Eurofinset.com	State of Origin	Page: Page 1 of 1

Company: KPRG and Associates Inc	PWSID	<b>Analysis Requested</b>	Job #: <i>500-198657</i>
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Address: 14665 West Lisbon Road Suite 1A City: Brookfield State Zip: WI 53005 Phone: 500-198657 COC Email: richardg@kprginc.com	Due Date Requested TAT Requested (days) Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 4502041043 WO #	Project #: 50011609 SSOW#	Site: Illinois
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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)	Analysis Requested										Total Number of containers	Special Instructions/Note
							D	D	N									
<del>1</del> MW-01	5/3	1201		Water			X	X	X									
<del>2</del> MW-02	5/3	1340		Water														
<del>3</del> MW-03	5/3	1500		Water														
<del>4</del> MW-04	5/3	1420		Water														
<del>5</del> MW-07	5/4	1300		Water														
<del>6</del> MW-08	5/4	1426		Water														
<del>7</del> MW-13	5/4	1505		Water														
<del>8</del> MW-14	5/4	1340		Water														
<del>9</del> MW-15	5/4	1229		Water														
<del>10</del> Duplicate	5/3	-		Water														

<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
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Deliverable Requested I II III IV Other (specify)	Special Instructions/QC Requirements
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Empty Kit Relinquished by:	Date	Time	Method of Shipment
Relinquished by: <i>Erin Bulson</i>	Date/Time: <i>5/4/21 4:00 PM</i>	Company: <i>KPRG</i>	Received by: <i>A. Neal</i> Date/Time: <i>5/4/21 4 PM</i> Company: <i>KPRG</i>
Relinquished by: <i>R. Neal</i>	Date/Time: <i>5/5/21 11:12 AM</i>	Company: <i>E4</i>	Received by: <i>R. Neal</i> Date/Time: <i>5/5/21 11/2</i> Company: <i>E4</i>
Relinquished by: <i>P. Neal</i>	Date/Time: <i>5/5/21 1156</i>	Company: <i>E4</i>	Received by: <i>Shirley Scott</i> Date/Time: <i>5/5/21 1156</i> Company: <i>ETA/CHI</i>

Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: <i>5.6, 4.8, 5.8, 4.7</i>
--	-----------------	---



**Chain of Custody Record**



Client Information (Sub Contract Lab)		Lab PM:	Carrier Tracking No(s):	COC No:							
Shipping/Receiving		Mockler, Diana J		500-148216-1							
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 2							
Address: 13715 Rider Trail North, Earth City, MO, 63045		Job #: 500-198657-2									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes:									
Email:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor 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 Z - other (specify)									
Project Name: Will County CCR		Other:									
Site: NRG Midwest Generation Will County		Total Number of Containers									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, On-surface, BT-Tissue, AxA)	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Analysis Requested	Special Instructions/Note:
MW-01 (500-198657-1)	5/3/21	12:01 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-02 (500-198657-2)	5/3/21	13:40 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-03 (500-198657-3)	5/3/21	15:00 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-04 (500-198657-4)	5/3/21	14:20 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-07 (500-198657-5)	5/4/21	13:00 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-08 (500-198657-6)	5/4/21	14:26 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-13 (500-198657-7)	5/4/21	15:05 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-14 (500-198657-8)	5/4/21	13:40 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-15 (500-198657-9)	5/4/21	12:29 Central	Water	Water	X	X	X	X	X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte &amp; accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>											
<b>Possible Hazard Identification</b>											
Unconfirmed											
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2											
Empty Kit Relinquished by: _____ Date: _____ Time: _____											
Relinquished by: <i>[Signature]</i> Date: 5/5/21 Time: 16:30											
Relinquished by: _____ Date: _____ Time: _____											
Relinquished by: _____ Date: _____ Time: _____											
Custody Seals Intact: _____ Custody Seal No.: _____											
Cooler Temperature(s) °C and Other Remarks: _____											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:											
Received by: <b>FED EX</b> Date/Time: _____ Received by: <i>[Signature]</i> Date/Time: 5/12/21 Received by: _____ Date/Time: _____											





**Chain of Custody Record**

<b>Client Information</b>		Sampler: <u>Eric Bulson</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s):		COC No: <u>500-198657</u>	
Client Contact: <u>Richard Gnat</u>		Phone:		E-Mail: <u>Diana.Mockler@Eurofins.com</u>		State of Origin:		Page: <u>1 of 1</u>	
Company: <u>KPRG and Associates, Inc.</u>		Address: <u>14665 West Lisbon Road, Suite 1A</u>		City: <u>Brookfield</u>		State: <u>WI</u>		Job #:	
State: <u>WI</u>		Zip: <u>53005</u>		Phone:		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes:	
PO #: <u>4502041043</u>		WO #:		Project #: <u>50011609</u>		SSOW #:		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 Other:	
Due Date Requested:		TAT Requested (days):		Field Filled Sample (Yes or No)		Perform MS/ Yes or No		Total Number of Containers	
Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix (W=water, S=solid, O=wastebot)		Special Instructions/Note:	
5/3		1340		Water		Water		2540C, 4500 F, C, SM4500 C.E, SM4500 S04 E	
5/3		1340		Water		Water		903.0, 904.0	
5/3		1500		Water		Water			
5/3		1420		Water		Water			
5/4		1300		Water		Water			
5/4		1426		Water		Water			
5/4		1505		Water		Water			
5/4		1340		Water		Water			
5/4		1229		Water		Water			
5/3		-		Water		Water			
MW-01		MW-02		MW-03		MW-04		MW-07	
MW-08		MW-13		MW-14		MW-15		Duplicate	
Possible Hazard Identification		Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>		Deliverable Requested: I, II, III, IV, Other (specify)		Date:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Relinquished by: <u>Eric Bulson</u>		Date/Time: <u>5/4/21 4:00 PM</u>		Company: <u>KPRG</u>		Received by: <u>[Signature]</u>		Date/Time: <u>5/4/21 4 PM</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>5/5/21 11:12 AM</u>		Company: <u>EIA</u>		Received by: <u>[Signature]</u>		Date/Time: <u>5/5/21 11/2</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>5/11/21 1156</u>		Company: <u>EIA</u>		Received by: <u>[Signature]</u>		Date/Time: <u>5/15/21 1156</u>	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Comments: <u>5.6 4.0 3.8 4.7</u>		Special Instructions/QC Requirements:		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198657-2

**Login Number: 198657**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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	5.6,4.8,5.8,4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198657-2

**Login Number: 198657**

**List Number: 2**

**Creator: Mazariegos, Leonel A**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 05/06/21 11:39 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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 <math><6\text{mm}</math> (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

Job ID: 500-198657-2

## Client Sample ID: MW-01

Lab Sample ID: 500-198657-1

Date Collected: 05/03/21 12:01

Matrix: Water

Date Received: 05/05/21 11:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:40	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512417	06/01/21 13:01	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

## Client Sample ID: MW-02

Lab Sample ID: 500-198657-2

Date Collected: 05/03/21 13:40

Matrix: Water

Date Received: 05/05/21 11:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:40	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:16	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

## Client Sample ID: MW-03

Lab Sample ID: 500-198657-3

Date Collected: 05/03/21 15:00

Matrix: Water

Date Received: 05/05/21 11:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:40	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:16	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

## Client Sample ID: MW-04

Lab Sample ID: 500-198657-4

Date Collected: 05/03/21 14:20

Matrix: Water

Date Received: 05/05/21 11:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:17	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

# Lab Chronicle

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

Job ID: 500-198657-2

**Client Sample ID: MW-07**  
**Date Collected: 05/04/21 13:00**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:17	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

**Client Sample ID: MW-08**  
**Date Collected: 05/04/21 14:26**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:18	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

**Client Sample ID: MW-13**  
**Date Collected: 05/04/21 15:05**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:18	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

**Client Sample ID: MW-14**  
**Date Collected: 05/04/21 13:40**  
**Date Received: 05/05/21 11:56**

**Lab Sample ID: 500-198657-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:18	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL



# Lab Chronicle

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

Job ID: 500-198657-2

**Client Sample ID: MW-15**

**Lab Sample ID: 500-198657-9**

**Date Collected: 05/04/21 12:29**

**Matrix: Water**

**Date Received: 05/05/21 11:56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:19	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-198657-10**

**Date Collected: 05/03/21 00:00**

**Matrix: Water**

**Date Received: 05/05/21 11:56**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509356	05/12/21 13:58	LAR	TAL SL
Total/NA	Analysis	903.0		1	512600	06/03/21 07:41	SCB	TAL SL
Total/NA	Prep	PrecSep_0			509365	05/12/21 14:38	LAR	TAL SL
Total/NA	Analysis	904.0		1	512418	06/01/21 13:19	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	512663	06/03/21 21:24	GRW	TAL SL

**Laboratory References:**

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

# Tracer/Carrier Summary

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

Job ID: 500-198657-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-198657-1	MW-01	79.6	
500-198657-2	MW-02	73.3	
500-198657-3	MW-03	74.2	
500-198657-4	MW-04	80.2	
500-198657-5	MW-07	77.5	
500-198657-6	MW-08	74.2	
500-198657-7	MW-13	79.0	
500-198657-8	MW-14	80.5	
500-198657-9	MW-15	74.8	
500-198657-10	Duplicate	83.8	
500-198657-10 DU	Duplicate	85.3	
LCS 160-509356/1-A	Lab Control Sample	80.5	
MB 160-509356/24-A	Method Blank	76.9	

**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 (40-110)	Y (40-110)
500-198657-1	MW-01	79.6	88.2
500-198657-2	MW-02	73.3	85.2
500-198657-3	MW-03	74.2	85.6
500-198657-4	MW-04	80.2	86.7
500-198657-5	MW-07	77.5	87.1
500-198657-6	MW-08	74.2	88.6
500-198657-7	MW-13	79.0	89.3
500-198657-8	MW-14	80.5	86.4
500-198657-9	MW-15	74.8	86.4
500-198657-10	Duplicate	83.8	85.2
500-198657-10 DU	Duplicate	85.3	84.9
LCS 160-509365/1-A	Lab Control Sample	80.5	89.0
MB 160-509365/24-A	Method Blank	76.9	87.1

**Tracer/Carrier Legend**  
Ba = Ba Carrier  
Y = Y Carrier

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-199645-1

Client Project/Site: Will County CCR 2Q21 GW Monitoring

**For:**

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

Attn: Richard Gnat



Authorized for release by:  
6/18/2021 11:55:32 AM

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

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**Job ID: 500-199645-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-199645-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/25/2021 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.3° C, 2.4° C, 3.1° C, 3.6° C, 5.2° C and 5.6° C.

**Metals**

Method 6020A: The initial low level continuing calibration verification (ICVL) associated with batch 500-602400 recovered above the upper control limit for Beryllium. The samples associated with this ICVL were non-detects for the affected analyte; therefore, the data have been reported.

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

**General Chemistry**

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



# Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL 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:

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

# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-199645-1	MW-01	Water	05/24/21 12:19	05/25/21 12:50	
500-199645-2	MW-02	Water	05/24/21 12:51	05/25/21 12:50	
500-199645-3	MW-03	Water	05/24/21 14:11	05/25/21 12:50	
500-199645-4	MW-04	Water	05/24/21 13:35	05/25/21 12:50	
500-199645-5	MW-05	Water	05/24/21 14:50	05/25/21 12:50	
500-199645-6	MW-06	Water	05/24/21 11:38	05/25/21 12:50	
500-199645-7	MW-07	Water	05/24/21 15:40	05/25/21 12:50	
500-199645-8	Duplicate	Water	05/24/21 00:00	05/25/21 12:50	
500-199645-9	MW-08	Water	05/25/21 11:24	05/26/21 11:25	
500-199645-10	MW-09	Water	05/25/21 12:07	05/26/21 11:25	
500-199645-11	MW-10	Water	05/25/21 13:15	05/26/21 11:25	
500-199645-12	MW-11	Water	05/25/21 12:50	05/26/21 11:25	
500-199645-13	MW-12	Water	05/25/21 13:50	05/26/21 11:25	
500-199645-14	MW-13	Water	05/25/21 15:28	05/26/21 11:25	
500-199645-15	MW-14	Water	05/25/21 14:45	05/26/21 11:25	
500-199645-16	MW-15	Water	05/25/21 14:20	05/26/21 11:25	

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-199645-1**

Date Collected: 05/24/21 12:19

Matrix: Water

Date Received: 05/25/21 12:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.036		0.010		mg/L		05/26/21 17:12	05/27/21 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 14:46	1
Arsenic	<0.0010		0.0010		mg/L		05/26/21 17:12	05/27/21 18:29	1
Barium	0.093		0.0025		mg/L		05/26/21 17:12	05/28/21 14:46	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:07	1
Boron	2.5		0.50		mg/L		05/26/21 17:12	06/03/21 16:27	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 14:46	1
Calcium	200		0.20		mg/L		05/26/21 17:12	05/27/21 18:29	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 14:46	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 14:46	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 14:46	1
Molybdenum	0.012	F1	0.0050		mg/L		05/26/21 17:12	05/28/21 14:46	1
Selenium	0.012		0.0025		mg/L		05/26/21 17:12	05/27/21 18:29	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 07:15	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/26/21 06:08	1
Chloride	18		2.0		mg/L			06/16/21 17:18	1
Fluoride	0.63		0.10		mg/L			06/14/21 09:21	1
Sulfate	350		100		mg/L			06/16/21 19:12	20



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-02**

**Lab Sample ID: 500-199645-2**

Date Collected: 05/24/21 12:51

Matrix: Water

Date Received: 05/25/21 12:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.047		0.010		mg/L		05/26/21 17:12	05/27/21 14:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:03	1
Arsenic	0.0099		0.0010		mg/L		05/26/21 17:12	05/27/21 18:44	1
Barium	0.059		0.0025		mg/L		05/26/21 17:12	05/28/21 15:03	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:25	1
Boron	5.2		1.0		mg/L		05/26/21 17:12	06/03/21 16:44	20
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:03	1
Calcium	88		0.20		mg/L		05/26/21 17:12	05/27/21 18:44	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:03	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:03	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:03	1
Molybdenum	0.070		0.0050		mg/L		05/26/21 17:12	05/28/21 15:03	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 18:44	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 07:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/26/21 06:11	1
Chloride	24		2.0		mg/L			06/16/21 17:18	1
Fluoride	0.41		0.10		mg/L			06/14/21 09:30	1
Sulfate	550		100		mg/L			06/16/21 19:12	20

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-199645-3**

Date Collected: 05/24/21 14:11

Matrix: Water

Date Received: 05/25/21 12:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.038		0.010		mg/L		05/26/21 17:12	05/27/21 14:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:06	1
Arsenic	0.0010		0.0010		mg/L		05/26/21 17:12	05/27/21 18:46	1
Barium	0.11		0.0025		mg/L		05/26/21 17:12	05/28/21 15:06	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:28	1
Boron	3.2		0.50		mg/L		05/26/21 17:12	06/03/21 16:47	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:06	1
Calcium	120		0.20		mg/L		05/26/21 17:12	05/27/21 18:46	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:06	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:06	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:06	1
Molybdenum	0.018		0.0050		mg/L		05/26/21 17:12	05/28/21 15:06	1
Selenium	0.0057		0.0025		mg/L		05/26/21 17:12	05/27/21 18:46	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 07:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	900		10		mg/L			05/26/21 06:14	1
Chloride	19		2.0		mg/L			06/16/21 17:18	1
Fluoride	0.34		0.10		mg/L			06/14/21 09:33	1
Sulfate	270		100		mg/L			06/16/21 19:13	20

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-199645-4**

Date Collected: 05/24/21 13:35

Matrix: Water

Date Received: 05/25/21 12:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.027		0.010		mg/L		05/26/21 17:12	05/27/21 14:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:10	1
Arsenic	0.0039		0.0010		mg/L		05/26/21 17:12	05/27/21 18:48	1
Barium	0.047		0.0025		mg/L		05/26/21 17:12	05/28/21 15:10	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:32	1
Boron	5.5		1.0		mg/L		05/26/21 17:12	06/03/21 16:51	20
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:10	1
Calcium	340		0.20		mg/L		05/26/21 17:12	05/27/21 18:48	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:10	1
Cobalt	0.0016		0.0010		mg/L		05/26/21 17:12	05/28/21 15:10	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:10	1
Molybdenum	0.028		0.0050		mg/L		05/26/21 17:12	05/28/21 15:10	1
Selenium	0.0051		0.0025		mg/L		05/26/21 17:12	05/27/21 18:48	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 07:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		10		mg/L			05/26/21 06:16	1
Chloride	24		2.0		mg/L			06/16/21 17:18	1
Fluoride	0.38		0.10		mg/L			06/14/21 09:36	1
Sulfate	950		100		mg/L			06/16/21 19:13	20

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-05**

**Lab Sample ID: 500-199645-5**

Date Collected: 05/24/21 14:50

Matrix: Water

Date Received: 05/25/21 12:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.015		0.010		mg/L		05/26/21 17:12	05/27/21 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:20	1
Arsenic	0.0011		0.0010		mg/L		05/26/21 17:12	05/27/21 18:50	1
Barium	0.046		0.0025		mg/L		05/26/21 17:12	05/28/21 15:20	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:42	1
Boron	4.7		1.0		mg/L		05/26/21 17:12	06/03/21 17:02	20
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:20	1
Calcium	120		0.20		mg/L		05/26/21 17:12	05/27/21 18:50	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:20	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:20	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:20	1
Molybdenum	0.063		0.0050		mg/L		05/26/21 17:12	05/28/21 15:20	1
Selenium	0.042		0.0025		mg/L		05/26/21 17:12	05/27/21 18:50	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 07:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			05/26/21 06:19	1
Chloride	28		2.0		mg/L			06/16/21 17:18	1
Fluoride	0.53		0.10		mg/L			06/14/21 09:38	1
Sulfate	430		100		mg/L			06/16/21 19:13	20

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-06**  
 Date Collected: 05/24/21 11:38  
 Date Received: 05/25/21 12:50

**Lab Sample ID: 500-199645-6**  
 Matrix: Water

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.016		0.010		mg/L		05/26/21 17:12	05/27/21 14:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:23	1
Arsenic	0.0025		0.0010		mg/L		05/26/21 17:12	05/27/21 18:51	1
Barium	0.080		0.0025		mg/L		05/26/21 17:12	05/28/21 15:23	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:46	1
Boron	2.6		0.50		mg/L		05/26/21 17:12	06/03/21 17:05	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:23	1
Calcium	99		0.20		mg/L		05/26/21 17:12	05/27/21 18:51	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:23	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:23	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:23	1
Molybdenum	0.017		0.0050		mg/L		05/26/21 17:12	05/28/21 15:23	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 18:51	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	610		10		mg/L			05/26/21 06:22	1
Chloride	46		2.0		mg/L			06/16/21 17:19	1
Fluoride	0.33		0.10		mg/L			06/14/21 09:42	1
Sulfate	160		25		mg/L			06/16/21 19:05	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-07**  
 Date Collected: 05/24/21 15:40  
 Date Received: 05/25/21 12:50

**Lab Sample ID: 500-199645-7**  
 Matrix: Water

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.028		0.010		mg/L		05/26/21 17:12	05/27/21 14:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:27	1
Arsenic	0.0022		0.0010		mg/L		05/26/21 17:12	05/27/21 18:53	1
Barium	0.064		0.0025		mg/L		05/26/21 17:12	05/28/21 15:27	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:49	1
Boron	4.2		0.50		mg/L		05/26/21 17:12	06/03/21 17:08	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:27	1
Calcium	150		0.20		mg/L		05/26/21 17:12	05/27/21 18:53	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:27	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:27	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:27	1
Molybdenum	0.049		0.0050		mg/L		05/26/21 17:12	05/28/21 15:27	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 18:53	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			05/26/21 06:25	1
Chloride	140		10		mg/L			06/16/21 17:28	5
Fluoride	0.53		0.10		mg/L			06/14/21 09:55	1
Sulfate	590		100		mg/L			06/16/21 19:14	20

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-199645-8**

Date Collected: 05/24/21 00:00

Matrix: Water

Date Received: 05/25/21 12:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.027		0.010		mg/L		05/26/21 17:12	05/27/21 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:30	1
Arsenic	0.0023		0.0010		mg/L		05/26/21 17:12	05/27/21 18:59	1
Barium	0.064		0.0025		mg/L		05/26/21 17:12	05/28/21 15:30	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:53	1
Boron	4.0		0.50		mg/L		05/26/21 17:12	06/03/21 17:12	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:30	1
Calcium	130		0.20		mg/L		05/26/21 17:12	05/27/21 18:59	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:30	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:30	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:30	1
Molybdenum	0.050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:30	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 18:59	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			05/26/21 06:28	1
Chloride	130		10		mg/L			06/16/21 17:28	5
Fluoride	0.58		0.10		mg/L			06/14/21 09:57	1
Sulfate	590		100		mg/L			06/16/21 19:14	20

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-08**

**Lab Sample ID: 500-199645-9**

Date Collected: 05/25/21 11:24

Matrix: Water

Date Received: 05/26/21 11:25

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.016		0.010		mg/L		05/26/21 17:12	05/27/21 14:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:33	1
Arsenic	0.0074		0.0010		mg/L		05/26/21 17:12	05/27/21 19:01	1
Barium	0.083		0.0025		mg/L		05/26/21 17:12	05/28/21 15:33	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:56	1
Boron	2.8		0.50		mg/L		05/26/21 17:12	06/03/21 17:15	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:33	1
Calcium	170		0.20		mg/L		05/26/21 17:12	05/27/21 19:01	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:33	1
Cobalt	0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:33	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:33	1
Molybdenum	0.044		0.0050		mg/L		05/26/21 17:12	05/28/21 15:33	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 19:01	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:16	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			05/27/21 04:57	1
Chloride	290		40		mg/L			06/16/21 17:39	20
Fluoride	0.51		0.10		mg/L			06/14/21 10:00	1
Sulfate	540		100		mg/L			06/16/21 19:15	20



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-09**

**Lab Sample ID: 500-199645-10**

Date Collected: 05/25/21 12:07

Matrix: Water

Date Received: 05/26/21 11:25

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/26/21 17:12	05/27/21 14:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:37	1
<b>Arsenic</b>	<b>0.0044</b>		0.0010		mg/L		05/26/21 17:12	05/27/21 19:03	1
<b>Barium</b>	<b>0.054</b>		0.0025		mg/L		05/26/21 17:12	05/28/21 15:37	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 14:00	1
<b>Boron</b>	<b>1.6</b>		0.25		mg/L		05/26/21 17:12	06/03/21 17:19	5
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:37	1
<b>Calcium</b>	<b>67</b>		0.20		mg/L		05/26/21 17:12	05/27/21 19:03	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:37	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:37	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:37	1
<b>Molybdenum</b>	<b>0.054</b>		0.0050		mg/L		05/26/21 17:12	05/28/21 15:37	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 19:03	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>900</b>		10		mg/L			05/27/21 05:00	1
<b>Chloride</b>	<b>360</b>		40		mg/L			06/16/21 17:39	20
<b>Fluoride</b>	<b>0.39</b>		0.10		mg/L			06/14/21 10:03	1
<b>Sulfate</b>	<b>180</b>		25		mg/L			06/16/21 19:07	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-199645-11**

Date Collected: 05/25/21 13:15

Matrix: Water

Date Received: 05/26/21 11:25

### Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.020		0.010		mg/L		05/26/21 17:12	05/27/21 14:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:40	1
Arsenic	0.018		0.0010		mg/L		05/26/21 17:12	05/27/21 19:05	1
Barium	0.18		0.0025		mg/L		05/26/21 17:12	05/28/21 15:40	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 14:03	1
Boron	3.0		0.50		mg/L		05/26/21 17:12	06/03/21 17:22	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:40	1
Calcium	160		0.20		mg/L		05/26/21 17:12	05/27/21 19:05	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:40	1
Cobalt	0.0013		0.0010		mg/L		05/26/21 17:12	05/28/21 15:40	1
Lead	0.0054		0.00050		mg/L		05/26/21 17:12	05/28/21 15:40	1
Molybdenum	0.036		0.0050		mg/L		05/26/21 17:12	05/28/21 15:40	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 19:05	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:40	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:31	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10		mg/L			05/27/21 05:02	1
Chloride	130		10		mg/L			06/16/21 17:29	5
Fluoride	0.62		0.10		mg/L			06/14/21 10:06	1
Sulfate	160		25		mg/L			06/16/21 19:08	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-199645-12**

Date Collected: 05/25/21 12:50

Matrix: Water

Date Received: 05/26/21 11:25

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/26/21 17:12	05/27/21 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:44	1
Arsenic	<b>0.0067</b>		0.0010		mg/L		05/26/21 17:12	05/27/21 19:07	1
Barium	<b>0.16</b>		0.0025		mg/L		05/26/21 17:12	05/28/21 15:44	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 14:07	1
Boron	<b>3.8</b>		1.0		mg/L		05/26/21 17:12	06/03/21 17:26	20
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:44	1
Calcium	<b>94</b>		0.20		mg/L		05/26/21 17:12	05/27/21 19:07	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:44	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:44	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:44	1
Molybdenum	<b>0.077</b>		0.0050		mg/L		05/26/21 17:12	05/28/21 15:44	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 19:07	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<b>660</b>		10		mg/L			05/27/21 05:05	1
Chloride	<b>130</b>		10		mg/L			06/16/21 17:29	5
Fluoride	<b>0.74</b>		0.10		mg/L			06/14/21 10:08	1
Sulfate	<b>57</b>		25		mg/L			06/16/21 19:08	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-12**  
 Date Collected: 05/25/21 13:50  
 Date Received: 05/26/21 11:25

**Lab Sample ID: 500-199645-13**  
 Matrix: Water

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		05/26/21 17:12	05/27/21 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:47	1
Arsenic	0.0017		0.0010		mg/L		05/26/21 17:12	05/27/21 19:09	1
Barium	0.14		0.0025		mg/L		05/26/21 17:12	05/28/21 15:47	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 14:10	1
Boron	1.8		0.25		mg/L		05/26/21 17:12	06/03/21 17:29	5
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:47	1
Calcium	140		0.20		mg/L		05/26/21 17:12	05/27/21 19:09	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:47	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:47	1
Lead	0.00085		0.00050		mg/L		05/26/21 17:12	05/28/21 15:47	1
Molybdenum	0.029		0.0050		mg/L		05/26/21 17:12	05/28/21 15:47	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 19:09	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	930		10		mg/L			05/27/21 05:08	1
Chloride	170		10		mg/L			06/16/21 17:30	5
Fluoride	0.49		0.10		mg/L			06/14/21 10:11	1
Sulfate	180		25		mg/L			06/16/21 19:08	5

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-13**  
**Date Collected: 05/25/21 15:28**  
**Date Received: 05/26/21 11:25**

**Lab Sample ID: 500-199645-14**  
**Matrix: Water**

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/26/21 17:12	05/27/21 15:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 15:51	1
<b>Arsenic</b>	<b>0.0010</b>		0.0010		mg/L		05/26/21 17:12	05/27/21 19:10	1
<b>Barium</b>	<b>0.13</b>		0.0025		mg/L		05/26/21 17:12	05/28/21 15:51	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 14:14	1
<b>Boron</b>	<b>1.8</b>		0.50		mg/L		05/26/21 17:12	06/03/21 17:33	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 15:51	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		05/26/21 17:12	05/27/21 19:10	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 15:51	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 15:51	1
<b>Lead</b>	<b>0.00052</b>		0.00050		mg/L		05/26/21 17:12	05/28/21 15:51	1
<b>Molybdenum</b>	<b>0.016</b>		0.0050		mg/L		05/26/21 17:12	05/28/21 15:51	1
<b>Selenium</b>	<b>0.0025</b>		0.0025		mg/L		05/26/21 17:12	05/27/21 19:10	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:37	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1100</b>		10		mg/L			05/27/21 05:10	1
<b>Chloride</b>	<b>220</b>		10		mg/L			06/16/21 17:42	5
<b>Fluoride</b>	<b>0.32</b>		0.10		mg/L			06/14/21 10:14	1
<b>Sulfate</b>	<b>280</b>		100		mg/L			06/16/21 19:16	20

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-199645-15**

Date Collected: 05/25/21 14:45

Matrix: Water

Date Received: 05/26/21 11:25

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.051		0.010		mg/L		05/26/21 17:12	05/27/21 15:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 16:53	1
Arsenic	0.0038		0.0010		mg/L		05/26/21 17:12	05/27/21 19:12	1
Barium	0.082		0.0025		mg/L		05/26/21 17:12	05/28/21 16:53	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 14:24	1
Boron	5.1		1.0		mg/L		05/26/21 17:12	06/03/21 17:46	20
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 16:53	1
Calcium	140		0.20		mg/L		05/26/21 17:12	05/27/21 19:12	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 16:53	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 16:53	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 16:53	1
Molybdenum	0.052		0.0050		mg/L		05/26/21 17:12	05/28/21 16:53	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 19:12	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 16:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			05/27/21 05:13	1
Chloride	110		10		mg/L			06/16/21 17:42	5
Fluoride	0.42		0.10		mg/L			06/14/21 10:17	1
Sulfate	550		100		mg/L			06/16/21 19:16	20

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-199645-16**

Date Collected: 05/25/21 14:20

Matrix: Water

Date Received: 05/26/21 11:25

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.025		0.010		mg/L		05/26/21 17:12	05/27/21 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 16:57	1
Arsenic	0.0018		0.0010		mg/L		05/26/21 17:12	05/27/21 19:14	1
Barium	0.14		0.0025		mg/L		05/26/21 17:12	05/28/21 16:57	1
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 14:28	1
Boron	3.2		0.50		mg/L		05/26/21 17:12	06/03/21 17:50	10
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 16:57	1
Calcium	220		0.20		mg/L		05/26/21 17:12	05/27/21 19:14	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 16:57	1
Cobalt	0.0016		0.0010		mg/L		05/26/21 17:12	05/28/21 16:57	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 16:57	1
Molybdenum	0.026		0.0050		mg/L		05/26/21 17:12	05/28/21 16:57	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 19:14	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 08:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			05/27/21 05:15	1
Chloride	120		10		mg/L			06/16/21 17:42	5
Fluoride	0.37		0.10		mg/L			06/14/21 10:20	1
Sulfate	600		100		mg/L			06/16/21 19:16	20

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

## Qualifiers

### Metals

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

### 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.
α	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 2Q21 GW Monitoring

Job ID: 500-199645-1

## Metals

### Prep Batch: 601027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total Recoverable	Water	3005A	
500-199645-2	MW-02	Total Recoverable	Water	3005A	
500-199645-3	MW-03	Total Recoverable	Water	3005A	
500-199645-4	MW-04	Total Recoverable	Water	3005A	
500-199645-5	MW-05	Total Recoverable	Water	3005A	
500-199645-6	MW-06	Total Recoverable	Water	3005A	
500-199645-7	MW-07	Total Recoverable	Water	3005A	
500-199645-8	Duplicate	Total Recoverable	Water	3005A	
500-199645-9	MW-08	Total Recoverable	Water	3005A	
500-199645-10	MW-09	Total Recoverable	Water	3005A	
500-199645-11	MW-10	Total Recoverable	Water	3005A	
500-199645-12	MW-11	Total Recoverable	Water	3005A	
500-199645-13	MW-12	Total Recoverable	Water	3005A	
500-199645-14	MW-13	Total Recoverable	Water	3005A	
500-199645-15	MW-14	Total Recoverable	Water	3005A	
500-199645-16	MW-15	Total Recoverable	Water	3005A	
MB 500-601027/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-601027/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-199645-1 MS	MW-01	Total Recoverable	Water	3005A	
500-199645-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-199645-1 DU	MW-01	Total Recoverable	Water	3005A	

### Analysis Batch: 601324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total Recoverable	Water	6010C	601027
500-199645-2	MW-02	Total Recoverable	Water	6010C	601027
500-199645-3	MW-03	Total Recoverable	Water	6010C	601027
500-199645-4	MW-04	Total Recoverable	Water	6010C	601027
500-199645-5	MW-05	Total Recoverable	Water	6010C	601027
500-199645-6	MW-06	Total Recoverable	Water	6010C	601027
500-199645-7	MW-07	Total Recoverable	Water	6010C	601027
500-199645-8	Duplicate	Total Recoverable	Water	6010C	601027
500-199645-9	MW-08	Total Recoverable	Water	6010C	601027
500-199645-10	MW-09	Total Recoverable	Water	6010C	601027
500-199645-11	MW-10	Total Recoverable	Water	6010C	601027
500-199645-12	MW-11	Total Recoverable	Water	6010C	601027
500-199645-13	MW-12	Total Recoverable	Water	6010C	601027
500-199645-14	MW-13	Total Recoverable	Water	6010C	601027
500-199645-15	MW-14	Total Recoverable	Water	6010C	601027
500-199645-16	MW-15	Total Recoverable	Water	6010C	601027
MB 500-601027/1-A	Method Blank	Total Recoverable	Water	6010C	601027
LCS 500-601027/2-A	Lab Control Sample	Total Recoverable	Water	6010C	601027
500-199645-1 MS	MW-01	Total Recoverable	Water	6010C	601027
500-199645-1 MSD	MW-01	Total Recoverable	Water	6010C	601027
500-199645-1 DU	MW-01	Total Recoverable	Water	6010C	601027

### Analysis Batch: 601405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total Recoverable	Water	6020A	601027
500-199645-2	MW-02	Total Recoverable	Water	6020A	601027
500-199645-3	MW-03	Total Recoverable	Water	6020A	601027

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# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

## Metals (Continued)

### Analysis Batch: 601405 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-4	MW-04	Total Recoverable	Water	6020A	601027
500-199645-5	MW-05	Total Recoverable	Water	6020A	601027
500-199645-6	MW-06	Total Recoverable	Water	6020A	601027
500-199645-7	MW-07	Total Recoverable	Water	6020A	601027
500-199645-8	Duplicate	Total Recoverable	Water	6020A	601027
500-199645-9	MW-08	Total Recoverable	Water	6020A	601027
500-199645-10	MW-09	Total Recoverable	Water	6020A	601027
500-199645-11	MW-10	Total Recoverable	Water	6020A	601027
500-199645-12	MW-11	Total Recoverable	Water	6020A	601027
500-199645-13	MW-12	Total Recoverable	Water	6020A	601027
500-199645-14	MW-13	Total Recoverable	Water	6020A	601027
500-199645-15	MW-14	Total Recoverable	Water	6020A	601027
500-199645-16	MW-15	Total Recoverable	Water	6020A	601027
MB 500-601027/1-A	Method Blank	Total Recoverable	Water	6020A	601027
LCS 500-601027/2-A	Lab Control Sample	Total Recoverable	Water	6020A	601027
500-199645-1 MS	MW-01	Total Recoverable	Water	6020A	601027
500-199645-1 MSD	MW-01	Total Recoverable	Water	6020A	601027
500-199645-1 DU	MW-01	Total Recoverable	Water	6020A	601027

### Analysis Batch: 601918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total Recoverable	Water	6020A	601027
500-199645-2	MW-02	Total Recoverable	Water	6020A	601027
500-199645-3	MW-03	Total Recoverable	Water	6020A	601027
500-199645-4	MW-04	Total Recoverable	Water	6020A	601027
500-199645-5	MW-05	Total Recoverable	Water	6020A	601027
500-199645-6	MW-06	Total Recoverable	Water	6020A	601027
500-199645-7	MW-07	Total Recoverable	Water	6020A	601027
500-199645-8	Duplicate	Total Recoverable	Water	6020A	601027
500-199645-9	MW-08	Total Recoverable	Water	6020A	601027
500-199645-10	MW-09	Total Recoverable	Water	6020A	601027
500-199645-11	MW-10	Total Recoverable	Water	6020A	601027
500-199645-12	MW-11	Total Recoverable	Water	6020A	601027
500-199645-13	MW-12	Total Recoverable	Water	6020A	601027
500-199645-14	MW-13	Total Recoverable	Water	6020A	601027
500-199645-15	MW-14	Total Recoverable	Water	6020A	601027
500-199645-16	MW-15	Total Recoverable	Water	6020A	601027
MB 500-601027/1-A	Method Blank	Total Recoverable	Water	6020A	601027
LCS 500-601027/2-A	Lab Control Sample	Total Recoverable	Water	6020A	601027
500-199645-1 MS	MW-01	Total Recoverable	Water	6020A	601027
500-199645-1 MSD	MW-01	Total Recoverable	Water	6020A	601027
500-199645-1 DU	MW-01	Total Recoverable	Water	6020A	601027

### Prep Batch: 602125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total/NA	Water	7470A	
500-199645-2	MW-02	Total/NA	Water	7470A	
500-199645-3	MW-03	Total/NA	Water	7470A	
500-199645-4	MW-04	Total/NA	Water	7470A	
500-199645-5	MW-05	Total/NA	Water	7470A	
500-199645-6	MW-06	Total/NA	Water	7470A	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

## Metals (Continued)

### Prep Batch: 602125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-7	MW-07	Total/NA	Water	7470A	
500-199645-8	Duplicate	Total/NA	Water	7470A	
500-199645-9	MW-08	Total/NA	Water	7470A	
500-199645-10	MW-09	Total/NA	Water	7470A	
500-199645-11	MW-10	Total/NA	Water	7470A	
500-199645-12	MW-11	Total/NA	Water	7470A	
500-199645-13	MW-12	Total/NA	Water	7470A	
500-199645-14	MW-13	Total/NA	Water	7470A	
500-199645-15	MW-14	Total/NA	Water	7470A	
500-199645-16	MW-15	Total/NA	Water	7470A	
MB 500-602125/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-602125/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-199645-9 MS	MW-08	Total/NA	Water	7470A	
500-199645-9 MSD	MW-08	Total/NA	Water	7470A	
500-199645-9 DU	MW-08	Total/NA	Water	7470A	

### Analysis Batch: 602349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total Recoverable	Water	6020A	601027
500-199645-2	MW-02	Total Recoverable	Water	6020A	601027
500-199645-3	MW-03	Total Recoverable	Water	6020A	601027
500-199645-4	MW-04	Total Recoverable	Water	6020A	601027
500-199645-5	MW-05	Total Recoverable	Water	6020A	601027
500-199645-6	MW-06	Total Recoverable	Water	6020A	601027
500-199645-7	MW-07	Total Recoverable	Water	6020A	601027
500-199645-8	Duplicate	Total Recoverable	Water	6020A	601027
500-199645-9	MW-08	Total Recoverable	Water	6020A	601027
500-199645-10	MW-09	Total Recoverable	Water	6020A	601027
500-199645-11	MW-10	Total Recoverable	Water	6020A	601027
500-199645-12	MW-11	Total Recoverable	Water	6020A	601027
500-199645-13	MW-12	Total Recoverable	Water	6020A	601027
500-199645-14	MW-13	Total Recoverable	Water	6020A	601027
500-199645-15	MW-14	Total Recoverable	Water	6020A	601027
500-199645-16	MW-15	Total Recoverable	Water	6020A	601027
MB 500-601027/1-A	Method Blank	Total Recoverable	Water	6020A	601027
LCS 500-601027/2-A	Lab Control Sample	Total Recoverable	Water	6020A	601027
500-199645-1 MS	MW-01	Total Recoverable	Water	6020A	601027
500-199645-1 MSD	MW-01	Total Recoverable	Water	6020A	601027
500-199645-1 DU	MW-01	Total Recoverable	Water	6020A	601027

### Analysis Batch: 602371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total/NA	Water	7470A	602125
500-199645-2	MW-02	Total/NA	Water	7470A	602125
500-199645-3	MW-03	Total/NA	Water	7470A	602125
500-199645-4	MW-04	Total/NA	Water	7470A	602125
500-199645-5	MW-05	Total/NA	Water	7470A	602125
500-199645-6	MW-06	Total/NA	Water	7470A	602125
500-199645-7	MW-07	Total/NA	Water	7470A	602125
500-199645-8	Duplicate	Total/NA	Water	7470A	602125
500-199645-9	MW-08	Total/NA	Water	7470A	602125

Eurofins TestAmerica, Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

## Metals (Continued)

### Analysis Batch: 602371 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-10	MW-09	Total/NA	Water	7470A	602125
500-199645-11	MW-10	Total/NA	Water	7470A	602125
500-199645-12	MW-11	Total/NA	Water	7470A	602125
500-199645-13	MW-12	Total/NA	Water	7470A	602125
500-199645-14	MW-13	Total/NA	Water	7470A	602125
500-199645-15	MW-14	Total/NA	Water	7470A	602125
500-199645-16	MW-15	Total/NA	Water	7470A	602125
MB 500-602125/12-A	Method Blank	Total/NA	Water	7470A	602125
LCS 500-602125/13-A	Lab Control Sample	Total/NA	Water	7470A	602125
500-199645-9 MS	MW-08	Total/NA	Water	7470A	602125
500-199645-9 MSD	MW-08	Total/NA	Water	7470A	602125
500-199645-9 DU	MW-08	Total/NA	Water	7470A	602125

### Analysis Batch: 602400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total Recoverable	Water	6020A	601027
500-199645-2	MW-02	Total Recoverable	Water	6020A	601027
500-199645-3	MW-03	Total Recoverable	Water	6020A	601027
500-199645-4	MW-04	Total Recoverable	Water	6020A	601027
500-199645-5	MW-05	Total Recoverable	Water	6020A	601027
500-199645-6	MW-06	Total Recoverable	Water	6020A	601027
500-199645-7	MW-07	Total Recoverable	Water	6020A	601027
500-199645-8	Duplicate	Total Recoverable	Water	6020A	601027
500-199645-9	MW-08	Total Recoverable	Water	6020A	601027
500-199645-10	MW-09	Total Recoverable	Water	6020A	601027
500-199645-11	MW-10	Total Recoverable	Water	6020A	601027
500-199645-12	MW-11	Total Recoverable	Water	6020A	601027
500-199645-13	MW-12	Total Recoverable	Water	6020A	601027
500-199645-14	MW-13	Total Recoverable	Water	6020A	601027
500-199645-15	MW-14	Total Recoverable	Water	6020A	601027
500-199645-16	MW-15	Total Recoverable	Water	6020A	601027
MB 500-601027/1-A	Method Blank	Total Recoverable	Water	6020A	601027
LCS 500-601027/2-A	Lab Control Sample	Total Recoverable	Water	6020A	601027
500-199645-1 MS	MW-01	Total Recoverable	Water	6020A	601027
500-199645-1 MSD	MW-01	Total Recoverable	Water	6020A	601027
500-199645-1 DU	MW-01	Total Recoverable	Water	6020A	601027

## General Chemistry

### Analysis Batch: 600852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total/NA	Water	SM 2540C	
500-199645-2	MW-02	Total/NA	Water	SM 2540C	
500-199645-3	MW-03	Total/NA	Water	SM 2540C	
500-199645-4	MW-04	Total/NA	Water	SM 2540C	
500-199645-5	MW-05	Total/NA	Water	SM 2540C	
500-199645-6	MW-06	Total/NA	Water	SM 2540C	
500-199645-7	MW-07	Total/NA	Water	SM 2540C	
500-199645-8	Duplicate	Total/NA	Water	SM 2540C	
MB 500-600852/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-600852/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

## General Chemistry

### Analysis Batch: 601086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-9	MW-08	Total/NA	Water	SM 2540C	
500-199645-10	MW-09	Total/NA	Water	SM 2540C	
500-199645-11	MW-10	Total/NA	Water	SM 2540C	
500-199645-12	MW-11	Total/NA	Water	SM 2540C	
500-199645-13	MW-12	Total/NA	Water	SM 2540C	
500-199645-14	MW-13	Total/NA	Water	SM 2540C	
500-199645-15	MW-14	Total/NA	Water	SM 2540C	
500-199645-16	MW-15	Total/NA	Water	SM 2540C	
MB 500-601086/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-601086/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 603990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total/NA	Water	SM 4500 F C	
500-199645-2	MW-02	Total/NA	Water	SM 4500 F C	
500-199645-3	MW-03	Total/NA	Water	SM 4500 F C	
500-199645-4	MW-04	Total/NA	Water	SM 4500 F C	
500-199645-5	MW-05	Total/NA	Water	SM 4500 F C	
500-199645-6	MW-06	Total/NA	Water	SM 4500 F C	
500-199645-7	MW-07	Total/NA	Water	SM 4500 F C	
500-199645-8	Duplicate	Total/NA	Water	SM 4500 F C	
500-199645-9	MW-08	Total/NA	Water	SM 4500 F C	
500-199645-10	MW-09	Total/NA	Water	SM 4500 F C	
500-199645-11	MW-10	Total/NA	Water	SM 4500 F C	
500-199645-12	MW-11	Total/NA	Water	SM 4500 F C	
500-199645-13	MW-12	Total/NA	Water	SM 4500 F C	
500-199645-14	MW-13	Total/NA	Water	SM 4500 F C	
500-199645-15	MW-14	Total/NA	Water	SM 4500 F C	
500-199645-16	MW-15	Total/NA	Water	SM 4500 F C	
MB 500-603990/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-603990/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-199645-1 MS	MW-01	Total/NA	Water	SM 4500 F C	
500-199645-1 MSD	MW-01	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 604633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-199645-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-199645-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-199645-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-199645-5	MW-05	Total/NA	Water	SM 4500 CI- E	
500-199645-6	MW-06	Total/NA	Water	SM 4500 CI- E	
500-199645-7	MW-07	Total/NA	Water	SM 4500 CI- E	
500-199645-8	Duplicate	Total/NA	Water	SM 4500 CI- E	
500-199645-9	MW-08	Total/NA	Water	SM 4500 CI- E	
500-199645-10	MW-09	Total/NA	Water	SM 4500 CI- E	
500-199645-11	MW-10	Total/NA	Water	SM 4500 CI- E	
500-199645-12	MW-11	Total/NA	Water	SM 4500 CI- E	
500-199645-13	MW-12	Total/NA	Water	SM 4500 CI- E	
500-199645-14	MW-13	Total/NA	Water	SM 4500 CI- E	
500-199645-15	MW-14	Total/NA	Water	SM 4500 CI- E	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

## General Chemistry (Continued)

### Analysis Batch: 604633 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-16	MW-15	Total/NA	Water	SM 4500 Cl- E	
MB 500-604633/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-604633/17	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-604633/18	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-604633/42	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-199645-1 MS	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-199645-1 MSD	MW-01	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 604634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-199645-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-199645-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-199645-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-199645-5	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-199645-6	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-199645-7	MW-07	Total/NA	Water	SM 4500 SO4 E	
500-199645-8	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-199645-9	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-199645-10	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-199645-11	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-199645-12	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-199645-13	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-199645-14	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-199645-15	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-199645-16	MW-15	Total/NA	Water	SM 4500 SO4 E	
MB 500-604634/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-604634/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-199645-1 MS	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-199645-1 MSD	MW-01	Total/NA	Water	SM 4500 SO4 E	



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-601027/1-A**  
**Matrix: Water**  
**Analysis Batch: 601324**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/26/21 17:12	05/27/21 13:35	1

**Lab Sample ID: LCS 500-601027/2-A**  
**Matrix: Water**  
**Analysis Batch: 601324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.525		mg/L		105	80 - 120

**Lab Sample ID: 500-199645-1 MS**  
**Matrix: Water**  
**Analysis Batch: 601324**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.036		0.500	0.584		mg/L		110	75 - 125

**Lab Sample ID: 500-199645-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 601324**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	0.036		0.500	0.568		mg/L		106	75 - 125	3	20

**Lab Sample ID: 500-199645-1 DU**  
**Matrix: Water**  
**Analysis Batch: 601324**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.036		0.0363		mg/L		0.3	20

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

**Lab Sample ID: MB 500-601027/1-A**  
**Matrix: Water**  
**Analysis Batch: 601405**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		05/26/21 17:12	05/27/21 18:25	1
Calcium	<0.20		0.20		mg/L		05/26/21 17:12	05/27/21 18:25	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/27/21 18:25	1

**Lab Sample ID: MB 500-601027/1-A**  
**Matrix: Water**  
**Analysis Batch: 601918**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/26/21 17:12	05/28/21 14:39	1
Arsenic	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 14:39	1
Barium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/28/21 14:39	1
Cadmium	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 14:39	1

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

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

**Lab Sample ID: MB 500-601027/1-A**  
**Matrix: Water**  
**Analysis Batch: 601918**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	<0.20		0.20		mg/L		05/26/21 17:12	05/28/21 14:39	1
Chromium	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 14:39	1
Cobalt	<0.0010		0.0010		mg/L		05/26/21 17:12	05/28/21 14:39	1
Lead	<0.00050		0.00050		mg/L		05/26/21 17:12	05/28/21 14:39	1
Molybdenum	<0.0050		0.0050		mg/L		05/26/21 17:12	05/28/21 14:39	1
Selenium	<0.0025		0.0025		mg/L		05/26/21 17:12	05/28/21 14:39	1
Thallium	<0.0020		0.0020		mg/L		05/26/21 17:12	05/28/21 14:39	1

**Lab Sample ID: MB 500-601027/1-A**  
**Matrix: Water**  
**Analysis Batch: 602349**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		05/26/21 17:12	06/03/21 16:20	1

**Lab Sample ID: MB 500-601027/1-A**  
**Matrix: Water**  
**Analysis Batch: 602400**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010	^1+	0.0010		mg/L		05/26/21 17:12	06/04/21 13:00	1

**Lab Sample ID: LCS 500-601027/2-A**  
**Matrix: Water**  
**Analysis Batch: 601405**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10.0	9.41		mg/L		94	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120

**Lab Sample ID: LCS 500-601027/2-A**  
**Matrix: Water**  
**Analysis Batch: 601918**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	2.00	2.08		mg/L		104	80 - 120
Cadmium	0.0500	0.0507		mg/L		101	80 - 120
Chromium	0.200	0.198		mg/L		99	80 - 120
Cobalt	0.500	0.501		mg/L		100	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Thallium	0.100	0.0971		mg/L		97	80 - 120



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

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

**Lab Sample ID: LCS 500-601027/2-A**  
**Matrix: Water**  
**Analysis Batch: 602349**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.00	1.05		mg/L		105	80 - 120

**Lab Sample ID: LCS 500-601027/2-A**  
**Matrix: Water**  
**Analysis Batch: 602400**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Beryllium	0.0500	0.0534	^1+	mg/L		107	80 - 120

**Lab Sample ID: 500-199645-1 MS**  
**Matrix: Water**  
**Analysis Batch: 601405**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	<0.0010		0.100	0.109		mg/L		108	75 - 125
Calcium	200		10.0	216	4	mg/L		195	75 - 125
Selenium	0.012		0.100	0.129		mg/L		117	75 - 125

**Lab Sample ID: 500-199645-1 MS**  
**Matrix: Water**  
**Analysis Batch: 601918**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0030		0.500	0.537		mg/L		107	75 - 125
Arsenic	<0.0010		0.100	0.105		mg/L		105	75 - 125
Barium	0.093		2.00	2.10		mg/L		100	75 - 125
Cadmium	<0.00050		0.0500	0.0516		mg/L		103	75 - 125
Calcium	190	*+	10.0	202	4	mg/L		130	75 - 125
Chromium	<0.0050		0.200	0.197		mg/L		99	75 - 125
Cobalt	<0.0010		0.500	0.492		mg/L		98	75 - 125
Lead	<0.00050		0.100	0.0990		mg/L		99	75 - 125
Molybdenum	0.012	F1	1.00	0.465	F1	mg/L		45	75 - 125
Selenium	0.012		0.100	0.120		mg/L		108	75 - 125
Thallium	<0.0020		0.100	0.0953		mg/L		95	75 - 125

**Lab Sample ID: 500-199645-1 MS**  
**Matrix: Water**  
**Analysis Batch: 602349**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	2.5		1.00	3.41		mg/L		94	75 - 125

**Lab Sample ID: 500-199645-1 MS**  
**Matrix: Water**  
**Analysis Batch: 602400**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**  
**%Rec.**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Beryllium	<0.0010	^1+	0.0500	0.0520	^1+	mg/L		104	75 - 125

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

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

**Lab Sample ID: 500-199645-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 601405**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Arsenic	<0.0010		0.100	0.109		mg/L		108	75 - 125	0	20
Calcium	200		10.0	217	4	mg/L		203	75 - 125	0	20
Selenium	0.012		0.100	0.129		mg/L		117	75 - 125	0	20

**Lab Sample ID: 500-199645-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 601918**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Antimony	<0.0030		0.500	0.530		mg/L		106	75 - 125	1	20
Arsenic	<0.0010		0.100	0.105		mg/L		105	75 - 125	0	20
Barium	0.093		2.00	2.11		mg/L		101	75 - 125	0	20
Cadmium	<0.00050		0.0500	0.0510		mg/L		101	75 - 125	1	20
Calcium	190	**	10.0	203	4	mg/L		139	75 - 125	0	20
Chromium	<0.0050		0.200	0.194		mg/L		97	75 - 125	2	20
Cobalt	<0.0010		0.500	0.487		mg/L		97	75 - 125	1	20
Lead	<0.00050		0.100	0.0984		mg/L		98	75 - 125	1	20
Molybdenum	0.012	F1	1.00	0.503	F1	mg/L		49	75 - 125	8	20
Selenium	0.012		0.100	0.120		mg/L		108	75 - 125	0	20
Thallium	<0.0020		0.100	0.0948		mg/L		95	75 - 125	1	20

**Lab Sample ID: 500-199645-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 602349**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Boron	2.5		1.00	3.49		mg/L		102	75 - 125	2	20

**Lab Sample ID: 500-199645-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 602400**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Beryllium	<0.0010	^1+	0.0500	0.0511	^1+	mg/L		102	75 - 125	2	20

**Lab Sample ID: 500-199645-1 DU**  
**Matrix: Water**  
**Analysis Batch: 601405**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Calcium	200		194		mg/L		1	20
Selenium	0.012		0.0114		mg/L		4	20

**Lab Sample ID: 500-199645-1 DU**  
**Matrix: Water**  
**Analysis Batch: 601918**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

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

**Lab Sample ID: 500-199645-1 DU**  
**Matrix: Water**  
**Analysis Batch: 601918**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.093		0.0931		mg/L		0.6	20
Cadmium	<0.00050		<0.00050		mg/L		NC	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
Molybdenum	0.012	F1	0.0112		mg/L		5	20
Selenium	0.012		0.0111		mg/L		5	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: 500-199645-1 DU**  
**Matrix: Water**  
**Analysis Batch: 602349**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	2.5		2.42		mg/L		2	20

**Lab Sample ID: 500-199645-1 DU**  
**Matrix: Water**  
**Analysis Batch: 602400**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 601027**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Beryllium	<0.0010	^1+	<0.0010	^1+	mg/L		NC	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-602125/12-A**  
**Matrix: Water**  
**Analysis Batch: 602371**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 602125**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/21 10:00	06/04/21 07:06	1

**Lab Sample ID: LCS 500-602125/13-A**  
**Matrix: Water**  
**Analysis Batch: 602371**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 602125**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00194		mg/L		97	80 - 120

**Lab Sample ID: 500-199645-9 MS**  
**Matrix: Water**  
**Analysis Batch: 602371**

**Client Sample ID: MW-08**  
**Prep Type: Total/NA**  
**Prep Batch: 602125**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000897		mg/L		90	75 - 125

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

## Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 500-199645-9 MSD  
 Matrix: Water  
 Analysis Batch: 602371

Client Sample ID: MW-08  
 Prep Type: Total/NA  
 Prep Batch: 602125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000906		mg/L		91	75 - 125	1	20

Lab Sample ID: 500-199645-9 DU  
 Matrix: Water  
 Analysis Batch: 602371

Client Sample ID: MW-08  
 Prep Type: Total/NA  
 Prep Batch: 602125

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

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

Lab Sample ID: MB 500-600852/1  
 Matrix: Water  
 Analysis Batch: 600852

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			05/26/21 05:29	1

Lab Sample ID: LCS 500-600852/2  
 Matrix: Water  
 Analysis Batch: 600852

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	246		mg/L		98	80 - 120

Lab Sample ID: MB 500-601086/1  
 Matrix: Water  
 Analysis Batch: 601086

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			05/27/21 04:37	1

Lab Sample ID: LCS 500-601086/2  
 Matrix: Water  
 Analysis Batch: 601086

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	242		mg/L		97	80 - 120

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

Lab Sample ID: MB 500-604633/16  
 Matrix: Water  
 Analysis Batch: 604633

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			06/16/21 17:17	1

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

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

Lab Sample ID: MB 500-604633/17  
 Matrix: Water  
 Analysis Batch: 604633

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			06/16/21 17:17	1

Lab Sample ID: LCS 500-604633/18  
 Matrix: Water  
 Analysis Batch: 604633

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	21.5		mg/L		107	85 - 115

Lab Sample ID: LCS 500-604633/42  
 Matrix: Water  
 Analysis Batch: 604633

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	21.7		mg/L		109	85 - 115

Lab Sample ID: 500-199645-1 MS  
 Matrix: Water  
 Analysis Batch: 604633

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	18		20.0	37.1		mg/L		95	75 - 125

Lab Sample ID: 500-199645-1 MSD  
 Matrix: Water  
 Analysis Batch: 604633

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	18		20.0	36.9		mg/L		94	75 - 125	1	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-603990/3  
 Matrix: Water  
 Analysis Batch: 603990

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			06/14/21 09:16	1

Lab Sample ID: LCS 500-603990/4  
 Matrix: Water  
 Analysis Batch: 603990

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	11.1		mg/L		111	80 - 120

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

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

**Lab Sample ID: 500-199645-1 MS**  
**Matrix: Water**  
**Analysis Batch: 603990**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.63		5.00	6.09		mg/L		109	75 - 125

**Lab Sample ID: 500-199645-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 603990**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.63		5.00	6.15		mg/L		110	75 - 125	1	20

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

**Lab Sample ID: MB 500-604634/15**  
**Matrix: Water**  
**Analysis Batch: 604634**

**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			06/16/21 18:56	1

**Lab Sample ID: LCS 500-604634/16**  
**Matrix: Water**  
**Analysis Batch: 604634**

**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	22.9		mg/L		114	80 - 120

**Lab Sample ID: 500-199645-1 MS**  
**Matrix: Water**  
**Analysis Batch: 604634**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	350		20.0	365	4	mg/L		50	75 - 125

**Lab Sample ID: 500-199645-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 604634**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	350		20.0	370	4	mg/L		80	75 - 125	2	20

**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**

<b>Client Information</b>		Sampler		Lab PM		Carrier Tracking No(s)		COC No.			
Client Contact: Richard Gnat		Phone:		Mockler Diana J		E-Mail		500-91626-40858 1			
Company: KPRG and Associates Inc		PWSID		Diana Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1			
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested		Analysis Requested Job # <b>500-199645</b> Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other		Job #		Total Number of containers			
City: Brookfield		TAT Requested (days)				Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)			
State Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				903.0 904.0		6010C, 6020A, 7470A			
Phone 500-199645 COC		PO #: 4502041043				2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E					
Email richardg@kprginc.com		WO #									
Project Name Will County CCR Event Desc Quarterly GW Monitoring		Project #: 50011609									
Site Illinois		SSOW#									
<b>Sample Identification</b>		<b>Sample Date</b>		<b>Sample Time</b>		<b>Sample Type</b> (C=comp, G=grab)		<b>Matrix</b> (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
								<b>Preservation Code:</b>			
MW-01		5-24		1219		Water		D D N			
MW-02		↓		1251		Water		↓ ↓ ↓			
MW-03		↓		1411		Water		↓ ↓ ↓			
MW-04		↓		1335		Water		↓ ↓ ↓			
MW-05		↓		1450		Water		↓ ↓ ↓			
MW-06		↓		1138		Water		↓ ↓ ↓			
MW-07		↓		1540		Water		↓ ↓ ↓			
Duplicate		↓		-		Water		↓ ↓ ↓			
MW-15						Water					
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month )</b>							
Deliverable Requested I II III IV Other (specify)				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Empty Kit Relinquished by		Date		Time		Method of Shipment:					
Relinquished by: <i>Erin [Signature]</i>		Date/Time: 5/25/21 0800		Company: KPLG		Received by: <i>[Signature]</i>		Date/Time: 5/25/21 0800		Company: TA	
Relinquished by: <i>[Signature]</i>		Date/Time: 5-25-21 0800		Company: TA		Received by: <i>[Signature]</i>		Date/Time: 5/25/21 1030		Company: TA	
Relinquished by: <i>[Signature]</i>		Date/Time: 5/25/21 1250		Company: TA		Received by: <i>[Signature]</i>		Date/Time: 5/25/21 1250		Company: TA-CHL	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 3.2, 2.3, 3.1, 2.4							

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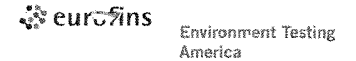
5/21, P.E.




**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler: Mockler Diana J		Carrier Tracking No(s)		COC No 500-91626-40858 1			
Client Contact: Richard Gnat		Phone		E-Mail Diana Mockler@Eurofinset.com		State of Origin			
Company: KPRG and Associates Inc		PWSID		<b>Analysis Requested</b>				Job # 500-199645	
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested		 <p>500-199645 COC</p>				<b>Preservation Codes</b> A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)	
City: Brookfield		TAT Requested (days)							
State Zip WI 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone		PO #: 4502041043							
Email richardg@kprginc.com		WO #:							
Project Name Will County CCR Event Desc Quarterly GW Monitoring		Project #: 50011609							
Site Illinois		SSOW#		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)				Total Number of containers	
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code*		Special Instructions/Note	
9	MW-08	5/25	1124		Water		X X X		
10	MW-09	↓	1207		Water				
11	MW-10	↓	1315		Water				
12	MW-11	↓	1250		Water				
13	MW-12	↓	1350		Water				
14	MW-13	↓	1528		Water				
15	MW-14	↓	1445		Water				
16	MW-15	↓	1420		Water				
TRIP BLANKS		↓			Water				
<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date		Time		Method of Shipment:			
Relinquished by [Signature]		Date/Time 5/25 / 4:30 PM		Company [Signature]		Date/Time 5/25 / 4:30 PM			
Relinquished by [Signature]		Date/Time 5/26 / 10:36 AM		Company [Signature]		Date/Time 5/26 / 21 / 036			
Relinquished by [Signature]		Date/Time 5/26/21 1125		Company [Signature]		Date/Time 5/26/21 1125			
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 0.6, 5.2, 5.6					





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199645-1

**Login Number: 199645**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3,3.1,2.4,3.6,5.2,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-199645-1**

**Date Collected: 05/24/21 12:19**

**Matrix: Water**

**Date Received: 05/25/21 12:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 13:43	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 18:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 16:27	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:07	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 14:46	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 07:15	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	600852	05/26/21 06:08	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	604633	06/16/21 17:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 09:21	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:12	MS	TAL CHI

**Client Sample ID: MW-02**

**Lab Sample ID: 500-199645-2**

**Date Collected: 05/24/21 12:51**

**Matrix: Water**

**Date Received: 05/25/21 12:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:09	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 18:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		20	602349	06/03/21 16:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:25	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:03	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 07:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	600852	05/26/21 06:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	604633	06/16/21 17:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 09:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:12	MS	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-03**  
**Date Collected: 05/24/21 14:11**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:12	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 18:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 16:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:28	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:06	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 07:19	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	600852	05/26/21 06:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	604633	06/16/21 17:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 09:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:13	MS	TAL CHI

**Client Sample ID: MW-04**  
**Date Collected: 05/24/21 13:35**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:16	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 18:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		20	602349	06/03/21 16:51	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:32	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:10	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 07:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	600852	05/26/21 06:16	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	604633	06/16/21 17:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 09:36	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:13	MS	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-05**  
**Date Collected: 05/24/21 14:50**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:20	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 18:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		20	602349	06/03/21 17:02	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:42	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:20	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 07:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	600852	05/26/21 06:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	604633	06/16/21 17:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 09:38	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:13	MS	TAL CHI

**Client Sample ID: MW-06**  
**Date Collected: 05/24/21 11:38**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:24	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 18:51	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 17:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:23	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:10	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	600852	05/26/21 06:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	604633	06/16/21 17:19	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 09:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	604634	06/16/21 19:05	MS	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-07**

**Lab Sample ID: 500-199645-7**

**Date Collected: 05/24/21 15:40**

**Matrix: Water**

**Date Received: 05/25/21 12:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:27	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 18:53	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 17:08	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:49	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:27	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:12	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	600852	05/26/21 06:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	604633	06/16/21 17:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:14	MS	TAL CHI

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-199645-8**

**Date Collected: 05/24/21 00:00**

**Matrix: Water**

**Date Received: 05/25/21 12:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:38	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 18:59	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 17:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:53	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:30	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:14	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	600852	05/26/21 06:28	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	604633	06/16/21 17:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 09:57	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:14	MS	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-08**

**Lab Sample ID: 500-199645-9**

**Date Collected: 05/25/21 11:24**

**Matrix: Water**

**Date Received: 05/26/21 11:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:42	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 19:01	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 17:15	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 13:56	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:33	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:16	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	601086	05/27/21 04:57	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		20	604633	06/16/21 17:39	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 10:00	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:15	MS	TAL CHI

**Client Sample ID: MW-09**

**Lab Sample ID: 500-199645-10**

**Date Collected: 05/25/21 12:07**

**Matrix: Water**

**Date Received: 05/26/21 11:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:46	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 19:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		5	602349	06/03/21 17:19	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 14:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:37	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:25	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	601086	05/27/21 05:00	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		20	604633	06/16/21 17:39	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 10:03	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	604634	06/16/21 19:07	MS	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-199645-11**

**Date Collected: 05/25/21 13:15**

**Matrix: Water**

**Date Received: 05/26/21 11:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:50	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 19:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 17:22	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 14:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:40	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	601086	05/27/21 05:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	604633	06/16/21 17:29	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 10:06	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	604634	06/16/21 19:08	MS	TAL CHI

**Client Sample ID: MW-11**

**Lab Sample ID: 500-199645-12**

**Date Collected: 05/25/21 12:50**

**Matrix: Water**

**Date Received: 05/26/21 11:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:53	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 19:07	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		20	602349	06/03/21 17:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 14:07	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:44	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:33	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	601086	05/27/21 05:05	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	604633	06/16/21 17:29	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 10:08	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	604634	06/16/21 19:08	MS	TAL CHI



# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-199645-13**

**Date Collected: 05/25/21 13:50**

**Matrix: Water**

**Date Received: 05/26/21 11:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 14:57	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 19:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		5	602349	06/03/21 17:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 14:10	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:47	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:35	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	601086	05/27/21 05:08	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	604633	06/16/21 17:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 10:11	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	604634	06/16/21 19:08	MS	TAL CHI

**Client Sample ID: MW-13**

**Lab Sample ID: 500-199645-14**

**Date Collected: 05/25/21 15:28**

**Matrix: Water**

**Date Received: 05/26/21 11:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 15:01	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 19:10	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 17:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 14:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 15:51	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:37	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	601086	05/27/21 05:10	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	604633	06/16/21 17:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 10:14	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:16	MS	TAL CHI



# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-199645-15**

**Date Collected: 05/25/21 14:45**

**Matrix: Water**

**Date Received: 05/26/21 11:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 15:05	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 19:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		20	602349	06/03/21 17:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 14:24	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 16:53	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	601086	05/27/21 05:13	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	604633	06/16/21 17:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 10:17	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:16	MS	TAL CHI

**Client Sample ID: MW-15**

**Lab Sample ID: 500-199645-16**

**Date Collected: 05/25/21 14:20**

**Matrix: Water**

**Date Received: 05/26/21 11:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	601324	05/27/21 15:08	EEN	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601405	05/27/21 19:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	602349	06/03/21 17:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	602400	06/04/21 14:28	FXG	TAL CHI
Total Recoverable	Prep	3005A			601027	05/26/21 17:12	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	601918	05/28/21 16:57	FXG	TAL CHI
Total/NA	Prep	7470A			602125	06/03/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602371	06/04/21 08:42	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	601086	05/27/21 05:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	604633	06/16/21 17:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	603990	06/14/21 10:20	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	604634	06/16/21 19:16	MS	TAL CHI

**Laboratory References:**

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

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200


Laboratory Job ID: 500-199645-2

Client Project/Site: Will County CCR 2Q21 GW Monitoring

For:

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

Attn: Richard Gnat



Authorized for release by:  
6/30/2021 3:23:17 PM

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

## Job ID: 500-199645-2

### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

#### Job Narrative 500-199645-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/25/2021 12:50 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 2.3° C, 2.4° C, 3.1° C, 3.6° C, 5.2° C and 5.6° C.

#### RAD

Methods 903.0, 9315: Radium-226 Batch 511925

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-01 (500-199645-1), MW-02 (500-199645-2), MW-03 (500-199645-3), MW-04 (500-199645-4), MW-05 (500-199645-5), MW-06 (500-199645-6), MW-07 (500-199645-7), Duplicate (500-199645-8), (LCS 160-511925/1-A), (MB 160-511925/23-A) and (500-199645-E-4-A DU)

Methods 903.0, 9315: Radium-226 Batch 512566

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-08 (500-199645-9), MW-09 (500-199645-10), MW-10 (500-199645-11), MW-11 (500-199645-12), (LCS 160-512566/1-A), (MB 160-512566/23-A) and (500-199645-C-10-A DU)

Method 903.0: Radium-226 prep batch 160-512778:

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-12 (500-199645-13), MW-13 (500-199645-14), MW-14 (500-199645-15), MW-15 (500-199645-16), (LCS 160-512778/1-A), (MB 160-512778/24-A) and (500-199645-E-15-A DU)

Methods 904.0, 9320: Radium-228 Batch 511931

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-01 (500-199645-1), MW-02 (500-199645-2), MW-03 (500-199645-3), MW-04 (500-199645-4), MW-05 (500-199645-5), MW-06 (500-199645-6), MW-07 (500-199645-7), Duplicate (500-199645-8), (LCS 160-511931/1-A), (MB 160-511931/23-A) and (500-199645-E-4-B DU)

Methods 904.0, 9320: Radium 228 prep batch 160-512573

The detection goal was not met for the following sample due to a reduction of the sample used attributed to sample matrix.: MW-10 (500-199645-11). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium 228 prep batch 160-512573

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-08 (500-199645-9), MW-09 (500-199645-10), MW-10 (500-199645-11), MW-11 (500-199645-12), (LCS 160-512573/1-A), (MB 160-512573/23-A) and (500-199645-C-10-B DU)

Method 904.0: Radium-228 Batch 512779

# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

## Job ID: 500-199645-2 (Continued)

### Laboratory: Eurofins TestAmerica, Chicago (Continued)

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-12 (500-199645-13), MW-13 (500-199645-14), MW-14 (500-199645-15), (LCS 160-512779/1-A), (MB 160-512779/24-A) and (500-199645-E-15-B DU)

Method 904.0: Radium-228 prep batch 160-512779:

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-15 (500-199645-16)

Method PrecSep\_0: Ra-228 Batch 160-511931:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-01 (500-199645-1), MW-02 (500-199645-2), MW-03 (500-199645-3), MW-04 (500-199645-4), MW-07 (500-199645-7), Duplicate (500-199645-8) and (500-199645-E-4 DU). This is an indicator of matrix interference.

Method PrecSep\_0:

Method PrecSep\_0: Ra-228 Batch 160-512573:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-10 (500-199645-11) and MW-11 (500-199645-12). This is an indicator of matrix interference.

Method PrecSep\_0: Ra-228 Batch 160-512779:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-12 (500-199645-13), MW-13 (500-199645-14), MW-14 (500-199645-15), MW-15 (500-199645-16) and (500-199645-E-15 DU). This is an indicator of matrix interference.

Method PrecSep\_0:

Method PrecSep-21: Ra-226 Batch 160-511925:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-01 (500-199645-1), MW-02 (500-199645-2), MW-03 (500-199645-3), MW-04 (500-199645-4), MW-07 (500-199645-7), Duplicate (500-199645-8) and (500-199645-E-4 DU). This is an indicator of matrix interference.

Method PrecSep-21: Ra-226 Batch 160-512566:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-10 (500-199645-11) and MW-11 (500-199645-12). This is an indicator of matrix interference.

Method PrecSep-21: Ra-226 Batch 160-512778:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-12 (500-199645-13), MW-13 (500-199645-14), MW-14 (500-199645-15), MW-15 (500-199645-16) and (500-199645-E-15 DU). This is an indicator of matrix interference.

Method PrecSep-21: Radium 226 prep batch 160-512778

The LCS associated with this batch did not produce a 228 pellet after the addition of 18N sodium hydroxide at the beginning of the out of ingrowth process. All the samples were put back into ingrowth and spiked with yttrium carrier and is to be taken out of ingrowth at a later date.

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 2Q21 GW Monitoring

Job ID: 500-199645-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SL = Eurofins TestAmerica, 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 2Q21 GW Monitoring

Job ID: 500-199645-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-199645-1	MW-01	Water	05/24/21 12:19	05/25/21 12:50	
500-199645-2	MW-02	Water	05/24/21 12:51	05/25/21 12:50	
500-199645-3	MW-03	Water	05/24/21 14:11	05/25/21 12:50	
500-199645-4	MW-04	Water	05/24/21 13:35	05/25/21 12:50	
500-199645-5	MW-05	Water	05/24/21 14:50	05/25/21 12:50	
500-199645-6	MW-06	Water	05/24/21 11:38	05/25/21 12:50	
500-199645-7	MW-07	Water	05/24/21 15:40	05/25/21 12:50	
500-199645-8	Duplicate	Water	05/24/21 00:00	05/25/21 12:50	
500-199645-9	MW-08	Water	05/25/21 11:24	05/26/21 11:25	
500-199645-10	MW-09	Water	05/25/21 12:07	05/26/21 11:25	
500-199645-11	MW-10	Water	05/25/21 13:15	05/26/21 11:25	
500-199645-12	MW-11	Water	05/25/21 12:50	05/26/21 11:25	
500-199645-13	MW-12	Water	05/25/21 13:50	05/26/21 11:25	
500-199645-14	MW-13	Water	05/25/21 15:28	05/26/21 11:25	
500-199645-15	MW-14	Water	05/25/21 14:45	05/26/21 11:25	
500-199645-16	MW-15	Water	05/25/21 14:20	05/26/21 11:25	

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-01**  
**Date Collected: 05/24/21 12:19**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-1**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.271	U	0.270	0.271	1.00	0.425	pCi/L	05/27/21 14:34	06/18/21 21:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.9		40 - 110					05/27/21 14:34	06/18/21 21:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.682</b>		0.399	0.403	1.00	0.603	pCi/L	05/27/21 15:09	06/18/21 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.9		40 - 110					05/27/21 15:09	06/18/21 09:23	1
Y Carrier	83.4		40 - 110					05/27/21 15:09	06/18/21 09:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.953</b>		0.482	0.486	5.00	0.603	pCi/L		06/30/21 14:47	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-02**  
**Date Collected: 05/24/21 12:51**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.359	U	0.262	0.264	1.00	0.381	pCi/L	05/27/21 14:34	06/18/21 21:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		40 - 110					05/27/21 14:34	06/18/21 21:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.834</b>		0.387	0.395	1.00	0.575	pCi/L	05/27/21 15:09	06/18/21 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		40 - 110					05/27/21 15:09	06/18/21 09:23	1
Y Carrier	84.1		40 - 110					05/27/21 15:09	06/18/21 09:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.19</b>		0.467	0.475	5.00	0.575	pCi/L		06/30/21 14:47	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-03**  
**Date Collected: 05/24/21 14:11**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-3**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.141	U	0.231	0.232	1.00	0.400	pCi/L	05/27/21 14:34	06/18/21 20:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					05/27/21 14:34	06/18/21 20:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.782		0.345	0.352	1.00	0.500	pCi/L	05/27/21 15:09	06/18/21 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					05/27/21 15:09	06/18/21 09:23	1
Y Carrier	85.6		40 - 110					05/27/21 15:09	06/18/21 09:23	1

**Method: 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	0.922		0.415	0.422	5.00	0.500	pCi/L		06/30/21 14:47	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-04**  
**Date Collected: 05/24/21 13:35**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.510</b>		0.330	0.334	1.00	0.470	pCi/L	05/27/21 14:34	06/18/21 20:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.8		40 - 110					05/27/21 14:34	06/18/21 20:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>1.21</b>		0.409	0.424	1.00	0.545	pCi/L	05/27/21 15:09	06/18/21 09:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.8		40 - 110					05/27/21 15:09	06/18/21 09:24	1
Y Carrier	83.4		40 - 110					05/27/21 15:09	06/18/21 09:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.72</b>		0.526	0.540	5.00	0.545	pCi/L		06/30/21 14:47	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-05**  
**Date Collected: 05/24/21 14:50**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-5**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.157	U	0.232	0.232	1.00	0.395	pCi/L	05/27/21 14:34	06/18/21 20:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					05/27/21 14:34	06/18/21 20:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.152	U	0.290	0.290	1.00	0.492	pCi/L	05/27/21 15:09	06/18/21 09:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					05/27/21 15:09	06/18/21 09:24	1
Y Carrier	84.9		40 - 110					05/27/21 15:09	06/18/21 09:24	1

**Method: 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	0.309	U	0.371	0.371	5.00	0.492	pCi/L		06/30/21 14:47	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-06**  
**Date Collected: 05/24/21 11:38**  
**Date Received: 05/25/21 12:50**

**Lab Sample ID: 500-199645-6**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.152	U	0.223	0.224	1.00	0.380	pCi/L	05/27/21 14:34	06/18/21 20:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		40 - 110					05/27/21 14:34	06/18/21 20:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.424	U	0.300	0.303	1.00	0.466	pCi/L	05/27/21 15:09	06/18/21 09:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		40 - 110					05/27/21 15:09	06/18/21 09:24	1
Y Carrier	80.4		40 - 110					05/27/21 15:09	06/18/21 09:24	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.576</b>		0.374	0.377	5.00	0.466	pCi/L		06/30/21 14:47	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-07**

**Lab Sample ID: 500-199645-7**

Date Collected: 05/24/21 15:40

Matrix: Water

Date Received: 05/25/21 12:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.647		0.293	0.299	1.00	0.338	pCi/L	05/27/21 14:34	06/18/21 20:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.6		40 - 110					05/27/21 14:34	06/18/21 20:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.629		0.301	0.307	1.00	0.434	pCi/L	05/27/21 15:09	06/18/21 09:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.6		40 - 110					05/27/21 15:09	06/18/21 09:24	1
Y Carrier	87.5		40 - 110					05/27/21 15:09	06/18/21 09:24	1

**Method: 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	1.28		0.420	0.429	5.00	0.434	pCi/L		06/30/21 14:47	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: Duplicate**  
 Date Collected: 05/24/21 00:00  
 Date Received: 05/25/21 12:50

**Lab Sample ID: 500-199645-8**  
 Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.515		0.267	0.271	1.00	0.341	pCi/L	05/27/21 14:34	06/18/21 20:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					05/27/21 14:34	06/18/21 20:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.844		0.312	0.322	1.00	0.422	pCi/L	05/27/21 15:09	06/18/21 09:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		40 - 110					05/27/21 15:09	06/18/21 09:24	1
Y Carrier	85.6		40 - 110					05/27/21 15:09	06/18/21 09:24	1

**Method: 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	1.36		0.411	0.421	5.00	0.422	pCi/L		06/30/21 14:47	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-08**  
**Date Collected: 05/25/21 11:24**  
**Date Received: 05/26/21 11:25**

**Lab Sample ID: 500-199645-9**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.199</b>		0.129	0.130	1.00	0.180	pCi/L	06/02/21 15:24	06/24/21 19:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					06/02/21 15:24	06/24/21 19:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.856</b>		0.367	0.375	1.00	0.528	pCi/L	06/02/21 16:08	06/21/21 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					06/02/21 16:08	06/21/21 13:55	1
Y Carrier	88.6		40 - 110					06/02/21 16:08	06/21/21 13:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.06</b>		0.389	0.397	5.00	0.528	pCi/L		06/24/21 22:51	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-09**  
**Date Collected: 05/25/21 12:07**  
**Date Received: 05/26/21 11:25**

**Lab Sample ID: 500-199645-10**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0582	U	0.148	0.149	1.00	0.268	pCi/L	06/02/21 15:24	06/24/21 19:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.1		40 - 110					06/02/21 15:24	06/24/21 19:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.682		0.427	0.432	1.00	0.655	pCi/L	06/02/21 16:08	06/21/21 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.1		40 - 110					06/02/21 16:08	06/21/21 13:56	1
Y Carrier	88.6		40 - 110					06/02/21 16:08	06/21/21 13:56	1

**Method: 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	0.741		0.452	0.457	5.00	0.655	pCi/L		06/24/21 22:51	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-10**  
**Date Collected: 05/25/21 13:15**  
**Date Received: 05/26/21 11:25**

**Lab Sample ID: 500-199645-11**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.248	U	0.293	0.294	1.00	0.481	pCi/L	06/02/21 15:24	06/24/21 19:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.2		40 - 110					06/02/21 15:24	06/24/21 19:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.704	U G	0.704	0.707	1.00	1.14	pCi/L	06/02/21 16:08	06/21/21 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.2		40 - 110					06/02/21 16:08	06/21/21 13:56	1
Y Carrier	90.5		40 - 110					06/02/21 16:08	06/21/21 13:56	1

**Method: 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	0.952	U	0.763	0.766	5.00	1.14	pCi/L		06/24/21 22:51	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-11**  
**Date Collected: 05/25/21 12:50**  
**Date Received: 05/26/21 11:25**

**Lab Sample ID: 500-199645-12**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.491</b>		0.213	0.218	1.00	0.240	pCi/L	06/02/21 15:24	06/24/21 19:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					06/02/21 15:24	06/24/21 19:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.795</b>		0.471	0.477	1.00	0.716	pCi/L	06/02/21 16:08	06/21/21 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					06/02/21 16:08	06/21/21 13:56	1
Y Carrier	89.3		40 - 110					06/02/21 16:08	06/21/21 13:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.29</b>		0.517	0.524	5.00	0.716	pCi/L		06/24/21 22:51	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-12**

**Lab Sample ID: 500-199645-13**

Date Collected: 05/25/21 13:50

Matrix: Water

Date Received: 05/26/21 11:25

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.374		0.148	0.152	1.00	0.161	pCi/L	06/04/21 09:14	06/29/21 15:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					06/04/21 09:14	06/29/21 15:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.155	U	0.266	0.266	1.00	0.452	pCi/L	06/04/21 09:20	06/25/21 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					06/04/21 09:20	06/25/21 10:50	1
Y Carrier	90.2		40 - 110					06/04/21 09:20	06/25/21 10:50	1

### Method: Ra226\_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.529		0.304	0.306	5.00	0.452	pCi/L		06/30/21 14:46	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-13**  
**Date Collected: 05/25/21 15:28**  
**Date Received: 05/26/21 11:25**

**Lab Sample ID: 500-199645-14**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.376		0.156	0.160	1.00	0.181	pCi/L	06/04/21 09:14	06/29/21 15:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		40 - 110					06/04/21 09:14	06/29/21 15:44	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.348	U	0.305	0.306	1.00	0.488	pCi/L	06/04/21 09:20	06/25/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		40 - 110					06/04/21 09:20	06/25/21 10:51	1
Y Carrier	89.6		40 - 110					06/04/21 09:20	06/25/21 10:51	1

**Method: 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	0.724		0.343	0.345	5.00	0.488	pCi/L		06/30/21 14:46	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-14**  
**Date Collected: 05/25/21 14:45**  
**Date Received: 05/26/21 11:25**

**Lab Sample ID: 500-199645-15**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.197</b>		0.123	0.124	1.00	0.169	pCi/L	06/04/21 09:14	06/29/21 15:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		40 - 110					06/04/21 09:14	06/29/21 15:45	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.539</b>		0.326	0.330	1.00	0.496	pCi/L	06/04/21 09:20	06/25/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.9		40 - 110					06/04/21 09:20	06/25/21 10:51	1
Y Carrier	86.9		40 - 110					06/04/21 09:20	06/25/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.736</b>		0.348	0.353	5.00	0.496	pCi/L		06/30/21 14:46	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

**Client Sample ID: MW-15**  
**Date Collected: 05/25/21 14:20**  
**Date Received: 05/26/21 11:25**

**Lab Sample ID: 500-199645-16**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.314		0.148	0.151	1.00	0.180	pCi/L	06/04/21 09:14	06/29/21 15:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.5		40 - 110					06/04/21 09:14	06/29/21 15:45	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.183	U	0.333	0.333	1.00	0.564	pCi/L	06/04/21 09:20	06/25/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.5		40 - 110					06/04/21 09:20	06/25/21 10:51	1
Y Carrier	89.3		40 - 110					06/04/21 09:20	06/25/21 10:51	1

**Method: 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	0.496	U	0.364	0.366	5.00	0.564	pCi/L		06/30/21 14:46	1

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

## Qualifiers

### Rad

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 2Q21 GW Monitoring

Job ID: 500-199645-2

## Rad

### Prep Batch: 511925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total/NA	Water	PrecSep-21	
500-199645-2	MW-02	Total/NA	Water	PrecSep-21	
500-199645-3	MW-03	Total/NA	Water	PrecSep-21	
500-199645-4	MW-04	Total/NA	Water	PrecSep-21	
500-199645-5	MW-05	Total/NA	Water	PrecSep-21	
500-199645-6	MW-06	Total/NA	Water	PrecSep-21	
500-199645-7	MW-07	Total/NA	Water	PrecSep-21	
500-199645-8	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-511925/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-511925/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-199645-4 DU	MW-04	Total/NA	Water	PrecSep-21	

### Prep Batch: 511931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-1	MW-01	Total/NA	Water	PrecSep_0	
500-199645-2	MW-02	Total/NA	Water	PrecSep_0	
500-199645-3	MW-03	Total/NA	Water	PrecSep_0	
500-199645-4	MW-04	Total/NA	Water	PrecSep_0	
500-199645-5	MW-05	Total/NA	Water	PrecSep_0	
500-199645-6	MW-06	Total/NA	Water	PrecSep_0	
500-199645-7	MW-07	Total/NA	Water	PrecSep_0	
500-199645-8	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-511931/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-511931/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-199645-4 DU	MW-04	Total/NA	Water	PrecSep_0	

### Prep Batch: 512566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-9	MW-08	Total/NA	Water	PrecSep-21	
500-199645-10	MW-09	Total/NA	Water	PrecSep-21	
500-199645-11	MW-10	Total/NA	Water	PrecSep-21	
500-199645-12	MW-11	Total/NA	Water	PrecSep-21	
MB 160-512566/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-512566/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-199645-10 DU	MW-09	Total/NA	Water	PrecSep-21	

### Prep Batch: 512573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-9	MW-08	Total/NA	Water	PrecSep_0	
500-199645-10	MW-09	Total/NA	Water	PrecSep_0	
500-199645-11	MW-10	Total/NA	Water	PrecSep_0	
500-199645-12	MW-11	Total/NA	Water	PrecSep_0	
MB 160-512573/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-512573/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-199645-10 DU	MW-09	Total/NA	Water	PrecSep_0	

### Prep Batch: 512778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-13	MW-12	Total/NA	Water	PrecSep-21	
500-199645-14	MW-13	Total/NA	Water	PrecSep-21	
500-199645-15	MW-14	Total/NA	Water	PrecSep-21	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

## Rad (Continued)

### Prep Batch: 512778 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-16	MW-15	Total/NA	Water	PrecSep-21	
MB 160-512778/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-512778/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-199645-15 DU	MW-14	Total/NA	Water	PrecSep-21	

### Prep Batch: 512779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199645-13	MW-12	Total/NA	Water	PrecSep_0	
500-199645-14	MW-13	Total/NA	Water	PrecSep_0	
500-199645-15	MW-14	Total/NA	Water	PrecSep_0	
500-199645-16	MW-15	Total/NA	Water	PrecSep_0	
MB 160-512779/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-512779/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-199645-15 DU	MW-14	Total/NA	Water	PrecSep_0	



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

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

**Lab Sample ID: MB 160-511925/23-A**  
**Matrix: Water**  
**Analysis Batch: 514789**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 511925**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.08358	U	0.180	0.180	1.00	0.323	pCi/L	05/27/21 14:34	06/18/21 21:03	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					05/27/21 14:34	06/18/21 21:03	1
	83.5									

**Lab Sample ID: LCS 160-511925/1-A**  
**Matrix: Water**  
**Analysis Batch: 514753**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 511925**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.18		1.31	1.00	0.310	pCi/L	90	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	83.2								

**Lab Sample ID: 500-199645-4 DU**  
**Matrix: Water**  
**Analysis Batch: 514754**

**Client Sample ID: MW-04**  
**Prep Type: Total/NA**  
**Prep Batch: 511925**

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.510		0.02229	U	0.249	1.00	0.476	pCi/L	0.84	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	67.6									

**Lab Sample ID: MB 160-512566/23-A**  
**Matrix: Water**  
**Analysis Batch: 515888**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 512566**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1480	U	0.141	0.142	1.00	0.221	pCi/L	06/02/21 15:24	06/24/21 19:23	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					06/02/21 15:24	06/24/21 19:23	1
	62.3									

**Lab Sample ID: LCS 160-512566/1-A**  
**Matrix: Water**  
**Analysis Batch: 515888**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 512566**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.57		1.28	1.00	0.304	pCi/L	93	75 - 125

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

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

**Lab Sample ID: LCS 160-512566/1-A**  
**Matrix: Water**  
**Analysis Batch: 515888**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 512566**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	55.5		40 - 110

**Lab Sample ID: 500-199645-10 DU**  
**Matrix: Water**  
**Analysis Batch: 515888**

**Client Sample ID: MW-09**  
**Prep Type: Total/NA**  
**Prep Batch: 512566**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	0.0582	U	0.2059		0.142	1.00	0.202	pCi/L	0.51	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	79.4		40 - 110

**Lab Sample ID: MB 160-512778/24-A**  
**Matrix: Water**  
**Analysis Batch: 516593**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 512778**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								Time	Date	Time	Date	
Radium-226	0.1523	U	0.143	0.143	1.00	0.222	pCi/L	06/04/21 16:08	06/29/21 22:45			1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Time	Date	
Ba Carrier	76.9		40 - 110	06/04/21 16:08	06/29/21 22:45	1

**Lab Sample ID: LCS 160-512778/1-A**  
**Matrix: Water**  
**Analysis Batch: 516499**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 512778**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									Min	Max
Radium-226	15.1	12.34		1.41	1.00	0.248	pCi/L	82	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	75.4		40 - 110

**Lab Sample ID: 500-199645-15 DU**  
**Matrix: Water**  
**Analysis Batch: 516593**

**Client Sample ID: MW-14**  
**Prep Type: Total/NA**  
**Prep Batch: 512778**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	0.197		0.1343	U	0.107	1.00	0.158	pCi/L	0.27	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	81.3		40 - 110

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

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

**Lab Sample ID: MB 160-511931/23-A**  
**Matrix: Water**  
**Analysis Batch: 514804**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 511931**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1527	U	0.231	0.231	1.00	0.388	pCi/L	05/27/21 15:09	06/18/21 09:25	1
Carrier	MB MB		Limits							
	%Yield	Qualifier		Prepared	Analyzed	Dil Fac				
Ba Carrier	83.5			40 - 110	05/27/21 15:09	06/18/21 09:25	1			
Y Carrier	85.6		40 - 110	05/27/21 15:09	06/18/21 09:25	1				

**Lab Sample ID: LCS 160-511931/1-A**  
**Matrix: Water**  
**Analysis Batch: 514804**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 511931**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-228	9.61	10.85		1.25	1.00	0.417	pCi/L	113	75 - 125	
Carrier	LCS LCS		Limits							
	%Yield	Qualifier		Prepared	Analyzed	Dil Fac				
Ba Carrier	83.2			40 - 110						
Y Carrier	82.2		40 - 110							

**Lab Sample ID: 500-199645-4 DU**  
**Matrix: Water**  
**Analysis Batch: 514804**

**Client Sample ID: MW-04**  
**Prep Type: Total/NA**  
**Prep Batch: 511931**

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	1.21		1.014		0.394	1.00	0.530	pCi/L	0.24	1
Carrier	DU DU		Limits							
	%Yield	Qualifier		Prepared	Analyzed	Dil Fac				
Ba Carrier	67.6			40 - 110						
Y Carrier	84.5		40 - 110							

**Lab Sample ID: MB 160-512573/23-A**  
**Matrix: Water**  
**Analysis Batch: 515249**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 512573**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.01021	U	0.371	0.371	1.00	0.663	pCi/L	06/02/21 16:08	06/21/21 13:57	1
Carrier	MB MB		Limits							
	%Yield	Qualifier		Prepared	Analyzed	Dil Fac				
Ba Carrier	62.3			40 - 110	06/02/21 16:08	06/21/21 13:57	1			
Y Carrier	92.3		40 - 110	06/02/21 16:08	06/21/21 13:57	1				

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

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

**Lab Sample ID: LCS 160-512573/1-A**  
**Matrix: Water**  
**Analysis Batch: 515251**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 512573**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	9.60	9.867		1.32	1.00	0.705	pCi/L	103	75	125
<b>LCS LCS</b>										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	55.5		40 - 110							
Y Carrier	89.7		40 - 110							

**Lab Sample ID: 500-199645-10 DU**  
**Matrix: Water**  
**Analysis Batch: 515249**

**Client Sample ID: MW-09**  
**Prep Type: Total/NA**  
**Prep Batch: 512573**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium-228	0.682		0.3254	U	0.334	1.00	0.542	pCi/L	0.47	1
<b>DU DU</b>										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	79.4		40 - 110							
Y Carrier	86.7		40 - 110							

**Lab Sample ID: MB 160-512779/24-A**  
**Matrix: Water**  
**Analysis Batch: 516152**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 512779**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								06/04/21 16:23	06/25/21 10:55	06/04/21 16:23	06/25/21 10:55	
Radium-228	0.1792	U	0.360	0.360	1.00	0.617	pCi/L	06/04/21 16:23	06/25/21 10:55	06/04/21 16:23	06/25/21 10:55	1
<b>MB MB</b>												
Carrier	%Yield	Qualifier	Limits		Prepared		Analyzed		Dil Fac			
Ba Carrier	76.9		40 - 110		06/04/21 16:23		06/25/21 10:55		06/04/21 16:23		06/25/21 10:55	1
Y Carrier	92.0		40 - 110		06/04/21 16:23		06/25/21 10:55		06/04/21 16:23		06/25/21 10:55	1

**Lab Sample ID: LCS 160-512779/1-A**  
**Matrix: Water**  
**Analysis Batch: 516151**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 512779**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									75	125
Radium-228	12.8	14.15		1.71	1.00	0.681	pCi/L	111	75	125
<b>LCS LCS</b>										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	75.4		40 - 110							
Y Carrier	88.1		40 - 110							

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

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

**Lab Sample ID: 500-199645-15 DU**  
**Matrix: Water**  
**Analysis Batch: 516151**

**Client Sample ID: MW-14**  
**Prep Type: Total/NA**  
**Prep Batch: 512779**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.539		0.5110		0.312	1.00	0.469	pCi/L	0.04	1

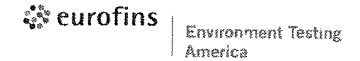
Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	81.3		40 - 110
Y Carrier	89.6		40 - 110

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# Eurofins TestAmerica, Chicago

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

## Chain of Custody Record



<b>Client Information</b>		Sampler Mockler Diana J		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No. 500-91626-40858 1		
Client Contact: Richard Gnat		Phone.		E-Mail Diana Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1		
Company KPRG and Associates Inc		PWSID		<b>Analysis Requested</b>					Job # <b>500-199645</b>	
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested								
City Brookfield		TAT Requested (days)		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 Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)	
State Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								
Phone 500-199645 COC		PO #: 4502041043								
Email richardg@kprginc.com		WO #								
Project Name Will County CCR Event Desc Quarterly GW Monitoring		Project #: 50011609		Other Special Instructions/Note						
Site Illinois		SSOW#								
<b>Sample Identification</b>		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)	Total Number of Containers	Special Instructions/Note	
MW-01		5-24	1219		Water	X	X	X		
MW-02		↓	1251		Water	↓	↓	↓		
MW-03		↓	1411		Water	↓	↓	↓		
MW-04		↓	1335		Water	↓	↓	↓		
MW-05		↓	1450		Water	↓	↓	↓		
MW-06		↓	1138		Water	↓	↓	↓		
MW-07		↓	1540		Water	↓	↓	↓		
Duplicate		↓	-		Water	↓	↓	↓		
MW-15					Water					
<b>Possible Hazard Identification</b>					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements					
Empty Kit Relinquished by			Date		Time		Method of Shipment:			
Relinquished by <i>Erin [Signature]</i>			Date/Time <i>5/25/21 0800</i>		Company <i>KPLG</i>		Received by <i>[Signature]</i> Date/Time <i>5/25/21 0800</i> Company <i>TA</i>			
Relinquished by <i>[Signature]</i>			Date/Time <i>5-25-21 0800</i>		Company <i>TA</i>		Received by <i>[Signature]</i> Date/Time <i>5/25/21 1030</i> Company <i>TA</i>			
Relinquished by <i>[Signature]</i>			Date/Time <i>5/25/21 1250</i>		Company <i>TA</i>		Received by <i>[Signature]</i> Date/Time <i>5/25/21 1250</i> Company <i>TA-CHI</i>			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks. <i>3.2, 2.3, 3.1, 2.4</i>						

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*5/21, P.E.*



**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**

<b>Client Information</b>		Sampler: Mockler Diana J	Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No 500-91626-40858 1						
Client Contact: Richard Gnat		Phone	E-Mail Diana Mockler@Eurofinset.com	State of Origin	Page Page 1 of 1						
Company: KPRG and Associates Inc		PWSID	<b>Analysis Requested</b>								
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested	 500-199645 COC								
City: Brookfield		TAT Requested (days)									
State Zip WI 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone		PO #: 4502041043									
Email richardg@kprginc.com		WO #:									
Project Name Will County CCR Event Desc Quarterly GW Monitoring		Project #: 50011609									
Site Illinois		SSOW#	Job # 500-199645								
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type</b> (C=comp, G=grab)	<b>Matrix</b> (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>Total Number of containers</b>	<b>Preservation Codes</b>	<b>Special Instructions/Note</b>	
									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 Z other (specify)	
9	<del>MW-01</del> MW-08	5/25	1124		Water						
10	<del>MW-02</del> MW-09	↓	1207		Water						
11	<del>MW-03</del> MW-10	↓	1315		Water						
12	<del>MW-04</del> MW-11	↓	1250		Water						
13	<del>MW-07</del> MW-12	↓	1350		Water						
14	<del>MW-08</del> MW-13	↓	1528		Water						
15	<del>MW-T3</del> MW-14	↓	1445		Water						
16	<del>MW-T4</del> MW-15	↓	1420		Water						
	TRIP BLANKS	5/25			Water						
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by			Date			Time			Method of Shipment:		
Relinquished by <i>[Signature]</i>			Date/Time 5/25 / 4:30 PM			Company [Blank]			Received by <i>[Signature]</i>		
Relinquished by <i>[Signature]</i>			Date/Time 5/26 / 10:36 AM			Company [Blank]			Received by <i>[Signature]</i>		
Relinquished by <i>[Signature]</i>			Date/Time 5/26/21 1125			Company ETA			Received by <i>[Signature]</i>		
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 0.6, 5.2, 5.6		Date/Time 5/25/21 1125		Company ETA-CH1		Date/Time 5/25/21 4:30 PM	



**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No.:
Client Contact:		Mockler, Diana J	Mockler, Diana J	500-148975-1	500-148975-1
Shipping/Receiving:		Phone:	E-Mail:	State of Origin:	Page:
Company:		Diana.Mockler@Eurofins.com		Illinois	Page 1 of 1
Address:		Accreditations Required (See note):		Job #:	500-199645-1
13715 Rider Trail North,		NELAP - Illinois		Preservation Codes:	A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - other (specify) Z - other (specify) Other:
City:		Due Date Requested:		Analysis Requested	
Earth City		6/15/2021		Total Number of Containers	
State, Zip:		TAT Requested (days):		3	
MO, 63045		903.0/PreSep_21 Standard Target List		3	
Phone:		904.0/PreSep_0 Standard Target List		3	
314-298-8566(Tel) 314-298-8757(Fax)		Field Filtered Sample (Yes or No)		3	
Email:		Perform MS/MSD (Yes or No)		3	
Project Name:		Preservation Code:		3	
Will County CCR		Water		3	
Site:		Sample Type (C=comp, G=grab)		3	
NRG Midwest Generation Will County		Water		3	
Sample Identification - Client ID (Lab ID)		Sample Time		3	
MW-01 (500-199645-1)	5/24/21	12:19 Central	Water	904.0/PreSep_0 Standard Target List	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-02 (500-199645-2)	5/24/21	12:51 Central	Water	903.0/PreSep_21 Standard Target List	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-03 (500-199645-3)	5/24/21	14:11 Central	Water		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-04 (500-199645-4)	5/24/21	13:35 Central	Water		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-05 (500-199645-5)	5/24/21	14:50 Central	Water		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-06 (500-199645-6)	5/24/21	11:38 Central	Water		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-07 (500-199645-7)	5/24/21	15:40 Central	Water		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
Duplicate (500-199645-8)	5/24/21	Central	Water		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>					
<b>Possible Hazard Identification</b>					
Unconfirmed					
Deliverable Requested: I, II, III, IV, Other (specify)					
Primary Deliverable Rank: 2					
Empty Kit Relinquished by: _____ Date: _____					
Relinquished by: <i>Stephanie Hernandez</i> Date/Time: 5/25/21 16:30					
Relinquished by: <i>FedEx</i> Date/Time: _____					
Relinquished by: _____ Date/Time: _____					
Custody Seals Intact: _____ Custody Seal No.: _____					
Cooler Temperature(s) °C and Other Remarks:					
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:					

# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Phone:	Mockler, Diana J		500-149013.1
Company: TestAmerica Laboratories, Inc.		E-Mail:	Diana.Mockler@Eurofins.com	State of Origin:	Page 1 of 1
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #:	500-199645-1
City: Earth City	Due Date Requested: 6/16/2021	<b>Analysis Requested</b>			
State, Zip: MO, 63045	TAT Requested (days):	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Total Number of Containers	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Preservation Codes:	
Email:	WO #:	Matrix (W=Water, S=Solid, O=Owastwat, ST=Stabil, A=Ab)	Sample Type (C=Comp, G=Grab)	Sample Time	Sample Date
Project Name: Will County CCR 2021 GW Monitoring	Project #: 50011609	Sample Date	Sample Time	Sample Date	Sample Time
Site: NRG Midwest Generation Will County	SSOW#:	Preservation Code:	Matrix	Sample Type	Sample Time
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Special Instructions/Note:</b>			
MW-08 (500-199645-9)	5/25/21	11:24 Central	Water		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;
MW-09 (500-199645-10)	5/25/21	12:07 Central	Water		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;
MW-10 (500-199645-11)	5/25/21	13:15 Central	Water		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;
MW-11 (500-199645-12)	5/25/21	12:50 Central	Water		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;
MW-12 (500-199645-13)	5/25/21	13:50 Central	Water		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;
MW-13 (500-199645-14)	5/25/21	15:28 Central	Water		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;
MW-14 (500-199645-15)	5/25/21	14:45 Central	Water		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;
MW-15 (500-199645-16)	5/25/21	14:20 Central	Water		Batch QC must be performed (dup, spikes, etc) - no NCMS concerning limited volume;

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

**Possible Hazard Identification**  
 Unconfirmed

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

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

Relinquished by: *Stephanie Hemminger* Date/Time: 5/26/21 16:50 Company: ETA-CHI  
 Relinquished by: **FED EX** Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

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

Received by: **FED EX** Date/Time: 5/27/21 08:55 Company: ETASIU  
 Received by: *[Signature]* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Special Instructions/QC Requirements: \_\_\_\_\_

Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199645-2

**Login Number: 199645**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3,3.1,2.4,3.6,5.2,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199645-2

**Login Number: 199645**

**List Number: 2**

**Creator: Worthington, Sierra M**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 05/26/21 10:50 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199645-2

**Login Number: 199645**

**List Number: 3**

**Creator: Geiler, Autumn R**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 05/27/21 03:47 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	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 2Q21 GW Monitoring

Job ID: 500-199645-2

## Client Sample ID: MW-01

Date Collected: 05/24/21 12:19

Date Received: 05/25/21 12:50

## Lab Sample ID: 500-199645-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511925	05/27/21 14:34	HRT	TAL SL
Total/NA	Analysis	903.0		1	514753	06/18/21 21:02	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511931	05/27/21 15:09	HRT	TAL SL
Total/NA	Analysis	904.0		1	514804	06/18/21 09:23	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516786	06/30/21 14:47	GRW	TAL SL

## Client Sample ID: MW-02

Date Collected: 05/24/21 12:51

Date Received: 05/25/21 12:50

## Lab Sample ID: 500-199645-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511925	05/27/21 14:34	HRT	TAL SL
Total/NA	Analysis	903.0		1	514753	06/18/21 21:02	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511931	05/27/21 15:09	HRT	TAL SL
Total/NA	Analysis	904.0		1	514804	06/18/21 09:23	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516786	06/30/21 14:47	GRW	TAL SL

## Client Sample ID: MW-03

Date Collected: 05/24/21 14:11

Date Received: 05/25/21 12:50

## Lab Sample ID: 500-199645-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511925	05/27/21 14:34	HRT	TAL SL
Total/NA	Analysis	903.0		1	514754	06/18/21 20:57	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511931	05/27/21 15:09	HRT	TAL SL
Total/NA	Analysis	904.0		1	514804	06/18/21 09:23	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516786	06/30/21 14:47	GRW	TAL SL

## Client Sample ID: MW-04

Date Collected: 05/24/21 13:35

Date Received: 05/25/21 12:50

## Lab Sample ID: 500-199645-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511925	05/27/21 14:34	HRT	TAL SL
Total/NA	Analysis	903.0		1	514754	06/18/21 20:58	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511931	05/27/21 15:09	HRT	TAL SL
Total/NA	Analysis	904.0		1	514804	06/18/21 09:24	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516786	06/30/21 14:47	GRW	TAL SL

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

## Client Sample ID: MW-05

Date Collected: 05/24/21 14:50

Date Received: 05/25/21 12:50

## Lab Sample ID: 500-199645-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511925	05/27/21 14:34	HRT	TAL SL
Total/NA	Analysis	903.0		1	514754	06/18/21 20:58	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511931	05/27/21 15:09	HRT	TAL SL
Total/NA	Analysis	904.0		1	514804	06/18/21 09:24	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516786	06/30/21 14:47	GRW	TAL SL

## Client Sample ID: MW-06

Date Collected: 05/24/21 11:38

Date Received: 05/25/21 12:50

## Lab Sample ID: 500-199645-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511925	05/27/21 14:34	HRT	TAL SL
Total/NA	Analysis	903.0		1	514754	06/18/21 20:58	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511931	05/27/21 15:09	HRT	TAL SL
Total/NA	Analysis	904.0		1	514804	06/18/21 09:24	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516786	06/30/21 14:47	GRW	TAL SL

## Client Sample ID: MW-07

Date Collected: 05/24/21 15:40

Date Received: 05/25/21 12:50

## Lab Sample ID: 500-199645-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511925	05/27/21 14:34	HRT	TAL SL
Total/NA	Analysis	903.0		1	514754	06/18/21 20:59	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511931	05/27/21 15:09	HRT	TAL SL
Total/NA	Analysis	904.0		1	514804	06/18/21 09:24	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516786	06/30/21 14:47	GRW	TAL SL

## Client Sample ID: Duplicate

Date Collected: 05/24/21 00:00

Date Received: 05/25/21 12:50

## Lab Sample ID: 500-199645-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511925	05/27/21 14:34	HRT	TAL SL
Total/NA	Analysis	903.0		1	514754	06/18/21 20:59	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511931	05/27/21 15:09	HRT	TAL SL
Total/NA	Analysis	904.0		1	514804	06/18/21 09:24	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516786	06/30/21 14:47	GRW	TAL SL



# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

## Client Sample ID: MW-08

Date Collected: 05/25/21 11:24

Date Received: 05/26/21 11:25

Lab Sample ID: 500-199645-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			512566	06/02/21 15:24	MJ	TAL SL
Total/NA	Analysis	903.0		1	515888	06/24/21 19:23	SCB	TAL SL
Total/NA	Prep	PrecSep_0			512573	06/02/21 16:08	MJ	TAL SL
Total/NA	Analysis	904.0		1	515249	06/21/21 13:55	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515929	06/24/21 22:51	SCB	TAL SL

## Client Sample ID: MW-09

Date Collected: 05/25/21 12:07

Date Received: 05/26/21 11:25

Lab Sample ID: 500-199645-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			512566	06/02/21 15:24	MJ	TAL SL
Total/NA	Analysis	903.0		1	515888	06/24/21 19:23	SCB	TAL SL
Total/NA	Prep	PrecSep_0			512573	06/02/21 16:08	MJ	TAL SL
Total/NA	Analysis	904.0		1	515249	06/21/21 13:56	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515929	06/24/21 22:51	SCB	TAL SL

## Client Sample ID: MW-10

Date Collected: 05/25/21 13:15

Date Received: 05/26/21 11:25

Lab Sample ID: 500-199645-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			512566	06/02/21 15:24	MJ	TAL SL
Total/NA	Analysis	903.0		1	515888	06/24/21 19:23	SCB	TAL SL
Total/NA	Prep	PrecSep_0			512573	06/02/21 16:08	MJ	TAL SL
Total/NA	Analysis	904.0		1	515249	06/21/21 13:56	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515929	06/24/21 22:51	SCB	TAL SL

## Client Sample ID: MW-11

Date Collected: 05/25/21 12:50

Date Received: 05/26/21 11:25

Lab Sample ID: 500-199645-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			512566	06/02/21 15:24	MJ	TAL SL
Total/NA	Analysis	903.0		1	515888	06/24/21 19:23	SCB	TAL SL
Total/NA	Prep	PrecSep_0			512573	06/02/21 16:08	MJ	TAL SL
Total/NA	Analysis	904.0		1	515249	06/21/21 13:56	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515929	06/24/21 22:51	SCB	TAL SL

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

## Client Sample ID: MW-12

Date Collected: 05/25/21 13:50

Date Received: 05/26/21 11:25

## Lab Sample ID: 500-199645-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			512778	06/04/21 09:14	MJ	TAL SL
Total/NA	Analysis	903.0		1	516499	06/29/21 15:44	ANW	TAL SL
Total/NA	Prep	PrecSep_0			512779	06/04/21 09:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	516151	06/25/21 10:50	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516785	06/30/21 14:46	GRW	TAL SL

## Client Sample ID: MW-13

Date Collected: 05/25/21 15:28

Date Received: 05/26/21 11:25

## Lab Sample ID: 500-199645-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			512778	06/04/21 09:14	MJ	TAL SL
Total/NA	Analysis	903.0		1	516499	06/29/21 15:44	ANW	TAL SL
Total/NA	Prep	PrecSep_0			512779	06/04/21 09:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	516151	06/25/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516785	06/30/21 14:46	GRW	TAL SL

## Client Sample ID: MW-14

Date Collected: 05/25/21 14:45

Date Received: 05/26/21 11:25

## Lab Sample ID: 500-199645-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			512778	06/04/21 09:14	MJ	TAL SL
Total/NA	Analysis	903.0		1	516593	06/29/21 15:45	ANW	TAL SL
Total/NA	Prep	PrecSep_0			512779	06/04/21 09:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	516151	06/25/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516785	06/30/21 14:46	GRW	TAL SL

## Client Sample ID: MW-15

Date Collected: 05/25/21 14:20

Date Received: 05/26/21 11:25

## Lab Sample ID: 500-199645-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			512778	06/04/21 09:14	MJ	TAL SL
Total/NA	Analysis	903.0		1	516593	06/29/21 15:45	ANW	TAL SL
Total/NA	Prep	PrecSep_0			512779	06/04/21 09:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	516151	06/25/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516785	06/30/21 14:46	GRW	TAL SL

### Laboratory References:

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

# Tracer/Carrier Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-199645-1	MW-01	58.9	
500-199645-2	MW-02	75.7	
500-199645-3	MW-03	74.8	
500-199645-4	MW-04	64.8	
500-199645-4 DU	MW-04	67.6	
500-199645-5	MW-05	74.1	
500-199645-6	MW-06	75.4	
500-199645-7	MW-07	72.6	
500-199645-8	Duplicate	76.3	
500-199645-9	MW-08	81.6	
500-199645-10	MW-09	61.1	
500-199645-10 DU	MW-09	79.4	
500-199645-11	MW-10	63.2	
500-199645-12	MW-11	74.1	
500-199645-13	MW-12	78.8	
500-199645-14	MW-13	78.2	
500-199645-15	MW-14	77.9	
500-199645-15 DU	MW-14	81.3	
500-199645-16	MW-15	74.5	
LCS 160-511925/1-A	Lab Control Sample	83.2	
LCS 160-512566/1-A	Lab Control Sample	55.5	
LCS 160-512778/1-A	Lab Control Sample	75.4	
MB 160-511925/23-A	Method Blank	83.5	
MB 160-512566/23-A	Method Blank	62.3	
MB 160-512778/24-A	Method Blank	76.9	

**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 (40-110)	Y (40-110)
500-199645-1	MW-01	58.9	83.4
500-199645-2	MW-02	75.7	84.1
500-199645-3	MW-03	74.8	85.6
500-199645-4	MW-04	64.8	83.4
500-199645-4 DU	MW-04	67.6	84.5
500-199645-5	MW-05	74.1	84.9
500-199645-6	MW-06	75.4	80.4
500-199645-7	MW-07	72.6	87.5
500-199645-8	Duplicate	76.3	85.6
500-199645-9	MW-08	81.6	88.6
500-199645-10	MW-09	61.1	88.6
500-199645-10 DU	MW-09	79.4	86.7
500-199645-11	MW-10	63.2	90.5
500-199645-12	MW-11	74.1	89.3
500-199645-13	MW-12	78.8	90.2

# Tracer/Carrier Summary

Client: KPRG and Associates, Inc.  
Project/Site: Will County CCR 2Q21 GW Monitoring

Job ID: 500-199645-2

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

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-199645-14	MW-13	78.2	89.6
500-199645-15	MW-14	77.9	86.9
500-199645-15 DU	MW-14	81.3	89.6
500-199645-16	MW-15	74.5	89.3
LCS 160-511931/1-A	Lab Control Sample	83.2	82.2
LCS 160-512573/1-A	Lab Control Sample	55.5	89.7
LCS 160-512779/1-A	Lab Control Sample	75.4	88.1
MB 160-511931/23-A	Method Blank	83.5	85.6
MB 160-512573/23-A	Method Blank	62.3	92.3
MB 160-512779/24-A	Method Blank	76.9	92.0

### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-200373-1  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:  
6/30/2021 2:25:55 PM

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

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

Job ID: 500-200373-1

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**Job ID: 500-200373-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-200373-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/8/2021 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.9° C, 2.6° C, 2.8° C and 3.2° C.

**Metals**

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

**General Chemistry**

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

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# Method Summary

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

Job ID: 500-200373-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL 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:

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



# Sample Summary

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

Job ID: 500-200373-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-200373-1	MW-01	Water	06/07/21 10:35	06/08/21 11:50	
500-200373-2	MW-02	Water	06/07/21 13:07	06/08/21 11:50	
500-200373-3	MW-07	Water	06/07/21 11:52	06/08/21 11:50	
500-200373-4	MW-08	Water	06/07/21 13:54	06/08/21 11:50	
500-200373-5	MW-13	Water	06/07/21 14:40	06/08/21 11:50	
500-200373-6	MW-14	Water	06/07/21 12:35	06/08/21 11:50	
500-200373-7	MW-15	Water	06/07/21 11:17	06/08/21 11:50	
500-200373-8	Duplicate	Water	06/07/21 00:00	06/08/21 11:50	
500-200373-9	MW-03	Water	06/08/21 10:40	06/09/21 12:06	
500-200373-10	MW-04	Water	06/08/21 10:03	06/09/21 12:06	

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-200373-1**

Date Collected: 06/07/21 10:35

Matrix: Water

Date Received: 06/08/21 11:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.037		0.010		mg/L		06/09/21 08:29	06/09/21 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 21:14	1
Arsenic	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:14	1
Barium	0.096		0.0025		mg/L		06/09/21 08:29	06/10/21 14:47	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:14	1
Boron	3.0		0.50		mg/L		06/09/21 08:29	06/11/21 11:53	10
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:14	1
Calcium	200		0.20		mg/L		06/09/21 08:29	06/09/21 21:14	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 21:14	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:14	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:14	1
Molybdenum	0.013		0.0050		mg/L		06/09/21 08:29	06/09/21 21:14	1
Selenium	0.010		0.0025		mg/L		06/09/21 08:29	06/10/21 14:47	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 21:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 08:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		10		mg/L			06/10/21 02:53	1
Chloride	18		2.0		mg/L			06/28/21 20:59	1
Fluoride	0.63		0.10		mg/L			06/28/21 18:13	1
Sulfate	380		50		mg/L			06/28/21 21:19	10

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-02**

**Lab Sample ID: 500-200373-2**

Date Collected: 06/07/21 13:07

Matrix: Water

Date Received: 06/08/21 11:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.045		0.010		mg/L		06/09/21 08:29	06/09/21 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 21:17	1
Arsenic	0.011		0.0010		mg/L		06/09/21 08:29	06/09/21 21:17	1
Barium	0.057		0.0025		mg/L		06/09/21 08:29	06/10/21 14:51	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:17	1
Boron	6.5		1.0		mg/L		06/09/21 08:29	06/11/21 11:56	20
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:17	1
Calcium	100		0.20		mg/L		06/09/21 08:29	06/09/21 21:17	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 21:17	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:17	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:17	1
Molybdenum	0.081		0.0050		mg/L		06/09/21 08:29	06/09/21 21:17	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:29	06/10/21 14:51	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 21:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 08:58	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/10/21 02:55	1
Chloride	25		2.0		mg/L			06/28/21 21:00	1
Fluoride	0.40		0.10		mg/L			06/28/21 18:16	1
Sulfate	540		100		mg/L			06/28/21 21:20	20

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-07**

**Lab Sample ID: 500-200373-3**

Date Collected: 06/07/21 11:52

Matrix: Water

Date Received: 06/08/21 11:50

### Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.022		0.010		mg/L		06/09/21 08:29	06/09/21 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 21:21	1
Arsenic	0.0026		0.0010		mg/L		06/09/21 08:29	06/09/21 21:21	1
Barium	0.064		0.0025		mg/L		06/09/21 08:29	06/10/21 14:54	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:21	1
Boron	4.0		0.50		mg/L		06/09/21 08:29	06/11/21 12:00	10
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:21	1
Calcium	110		0.20		mg/L		06/09/21 08:29	06/09/21 21:21	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 21:21	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:21	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:21	1
Molybdenum	0.070		0.0050		mg/L		06/09/21 08:29	06/09/21 21:21	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:29	06/10/21 14:54	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 21:21	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 09:00	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/10/21 02:58	1
Chloride	120		10		mg/L			06/28/21 21:00	5
Fluoride	0.69		0.10		mg/L			06/28/21 18:19	1
Sulfate	480		100		mg/L			06/28/21 21:20	20

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-08**

**Lab Sample ID: 500-200373-4**

Date Collected: 06/07/21 13:54

Matrix: Water

Date Received: 06/08/21 11:50

### Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		06/09/21 08:29	06/09/21 19:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 21:24	1
Arsenic	0.010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:24	1
Barium	0.067		0.0025		mg/L		06/09/21 08:29	06/10/21 14:58	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:24	1
Boron	4.2		0.50		mg/L		06/09/21 08:29	06/11/21 12:03	10
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:24	1
Calcium	170		0.20		mg/L		06/09/21 08:29	06/09/21 21:24	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 21:24	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:24	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:24	1
Molybdenum	0.091		0.0050		mg/L		06/09/21 08:29	06/09/21 21:24	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:29	06/10/21 14:58	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 21:24	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 09:13	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			06/10/21 03:01	1
Chloride	120		20		mg/L			06/28/21 21:00	10
Fluoride	0.59		0.10		mg/L			06/28/21 18:22	1
Sulfate	650		100		mg/L			06/28/21 21:21	20

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-200373-5**

Date Collected: 06/07/21 14:40

Matrix: Water

Date Received: 06/08/21 11:50

### Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/09/21 08:29	06/09/21 19:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 21:28	1
Arsenic	0.0021		0.0010		mg/L		06/09/21 08:29	06/09/21 21:28	1
Barium	0.13		0.0025		mg/L		06/09/21 08:29	06/10/21 15:01	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:28	1
Boron	2.2		0.25		mg/L		06/09/21 08:29	06/11/21 12:07	5
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:28	1
Calcium	180		0.20		mg/L		06/09/21 08:29	06/09/21 21:28	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 21:28	1
Cobalt	0.0013		0.0010		mg/L		06/09/21 08:29	06/09/21 21:28	1
Lead	0.0014		0.00050		mg/L		06/09/21 08:29	06/09/21 21:28	1
Molybdenum	0.018		0.0050		mg/L		06/09/21 08:29	06/09/21 21:28	1
Selenium	0.0027		0.0025		mg/L		06/09/21 08:29	06/10/21 15:01	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 21:28	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 09:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			06/10/21 03:03	1
Chloride	250		10		mg/L			06/28/21 21:01	5
Fluoride	0.33		0.10		mg/L			06/28/21 18:25	1
Sulfate	270		50		mg/L			06/28/21 21:21	10

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-14**  
Date Collected: 06/07/21 12:35  
Date Received: 06/08/21 11:50

**Lab Sample ID: 500-200373-6**  
Matrix: Water

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.050		0.010		mg/L		06/09/21 08:29	06/09/21 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 21:31	1
Arsenic	0.0047		0.0010		mg/L		06/09/21 08:29	06/09/21 21:31	1
Barium	0.13		0.0025		mg/L		06/09/21 08:29	06/10/21 15:05	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:31	1
Boron	5.7		1.0		mg/L		06/09/21 08:29	06/11/21 12:10	20
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:31	1
Calcium	150		0.20		mg/L		06/09/21 08:29	06/09/21 21:31	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 21:31	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:31	1
Lead	0.00062		0.00050		mg/L		06/09/21 08:29	06/09/21 21:31	1
Molybdenum	0.054		0.0050		mg/L		06/09/21 08:29	06/09/21 21:31	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:29	06/10/21 15:05	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 21:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 09:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			06/10/21 03:06	1
Chloride	110		10		mg/L			06/28/21 21:01	5
Fluoride	0.47		0.10		mg/L			06/28/21 18:38	1
Sulfate	530		100		mg/L			06/28/21 21:22	20

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-200373-7**

Date Collected: 06/07/21 11:17

Matrix: Water

Date Received: 06/08/21 11:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.019		0.010		mg/L		06/09/21 08:29	06/09/21 19:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 21:35	1
Arsenic	0.0021		0.0010		mg/L		06/09/21 08:29	06/09/21 21:35	1
Barium	0.10		0.0025		mg/L		06/09/21 08:29	06/10/21 15:08	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:35	1
Boron	3.8		0.50		mg/L		06/09/21 08:29	06/11/21 12:14	10
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:35	1
Calcium	170		0.20		mg/L		06/09/21 08:29	06/09/21 21:35	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 21:35	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:35	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:35	1
Molybdenum	0.033		0.0050		mg/L		06/09/21 08:29	06/09/21 21:35	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:29	06/10/21 15:08	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 21:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 09:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			06/10/21 03:08	1
Chloride	110		10		mg/L			06/28/21 21:02	5
Fluoride	0.53		0.10		mg/L			06/28/21 18:40	1
Sulfate	570		100		mg/L			06/28/21 21:22	20



# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-200373-8**

Date Collected: 06/07/21 00:00

Matrix: Water

Date Received: 06/08/21 11:50

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.020		0.010		mg/L		06/09/21 08:29	06/09/21 19:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 21:38	1
Arsenic	0.011		0.0010		mg/L		06/09/21 08:29	06/09/21 21:38	1
Barium	0.069		0.0025		mg/L		06/09/21 08:29	06/10/21 15:15	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:38	1
Boron	4.3		0.50		mg/L		06/09/21 08:29	06/11/21 12:17	10
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:38	1
Calcium	170		0.20		mg/L		06/09/21 08:29	06/09/21 21:38	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 21:38	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 21:38	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 21:38	1
Molybdenum	0.083		0.0050		mg/L		06/09/21 08:29	06/09/21 21:38	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:29	06/10/21 15:15	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 21:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 09:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			06/10/21 03:11	1
Chloride	120		10		mg/L			06/28/21 21:02	5
Fluoride	0.58		0.10		mg/L			06/28/21 18:43	1
Sulfate	620		100		mg/L			06/28/21 21:23	20

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-03**  
Date Collected: 06/08/21 10:40  
Date Received: 06/09/21 12:06

**Lab Sample ID: 500-200373-9**  
Matrix: Water

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.041		0.010		mg/L		06/10/21 08:40	06/14/21 10:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/21 08:40	06/10/21 20:44	1
Arsenic	0.0014		0.0010		mg/L		06/10/21 08:40	06/10/21 20:44	1
Barium	0.10		0.0025		mg/L		06/10/21 08:40	06/10/21 20:44	1
Beryllium	<0.0010		0.0010		mg/L		06/10/21 08:40	06/10/21 20:44	1
Boron	3.7		0.50		mg/L		06/10/21 08:40	06/11/21 13:02	10
Cadmium	<0.00050		0.00050		mg/L		06/10/21 08:40	06/10/21 20:44	1
Calcium	140		0.20		mg/L		06/10/21 08:40	06/10/21 20:44	1
Chromium	<0.0050		0.0050		mg/L		06/10/21 08:40	06/10/21 20:44	1
Cobalt	<0.0010		0.0010		mg/L		06/10/21 08:40	06/10/21 20:44	1
Lead	<0.00050		0.00050		mg/L		06/10/21 08:40	06/10/21 20:44	1
Molybdenum	0.017		0.0050		mg/L		06/10/21 08:40	06/10/21 20:44	1
Selenium	<0.0025		0.0025		mg/L		06/10/21 08:40	06/10/21 20:44	1
Thallium	<0.0020		0.0020		mg/L		06/10/21 08:40	06/10/21 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 09:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			06/10/21 04:06	1
Chloride	21		2.0		mg/L			06/28/21 21:02	1
Fluoride	0.32		0.10		mg/L			06/28/21 18:46	1
Sulfate	290		50		mg/L			06/28/21 21:23	10

# Client Sample Results

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

Job ID: 500-200373-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-200373-10**

Date Collected: 06/08/21 10:03

Matrix: Water

Date Received: 06/09/21 12:06

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.027		0.010		mg/L		06/10/21 08:40	06/14/21 10:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/10/21 08:40	06/10/21 20:47	1
Arsenic	0.0026		0.0010		mg/L		06/10/21 08:40	06/10/21 20:47	1
Barium	0.043		0.0025		mg/L		06/10/21 08:40	06/10/21 20:47	1
Beryllium	<0.0010		0.0010		mg/L		06/10/21 08:40	06/10/21 20:47	1
Boron	5.7		1.0		mg/L		06/10/21 08:40	06/11/21 13:05	20
Cadmium	<0.00050		0.00050		mg/L		06/10/21 08:40	06/10/21 20:47	1
Calcium	310		4.0		mg/L		06/10/21 08:40	06/11/21 13:05	20
Chromium	<0.0050		0.0050		mg/L		06/10/21 08:40	06/10/21 20:47	1
Cobalt	0.0016		0.0010		mg/L		06/10/21 08:40	06/10/21 20:47	1
Lead	<0.00050		0.00050		mg/L		06/10/21 08:40	06/10/21 20:47	1
Molybdenum	0.028		0.0050		mg/L		06/10/21 08:40	06/10/21 20:47	1
Selenium	0.0076		0.0025		mg/L		06/10/21 08:40	06/10/21 20:47	1
Thallium	<0.0020		0.0020		mg/L		06/10/21 08:40	06/10/21 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 09:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2000		10		mg/L			06/10/21 04:13	1
Chloride	24		2.0		mg/L			06/28/21 21:02	1
Fluoride	0.37		0.10		mg/L			06/28/21 18:49	1
Sulfate	910		100		mg/L			06/28/21 21:23	20

# Definitions/Glossary

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

Job ID: 500-200373-1

## Qualifiers

### 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.
α	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

Job ID: 500-200373-1

## Metals

### Prep Batch: 603070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total Recoverable	Water	3005A	
500-200373-2	MW-02	Total Recoverable	Water	3005A	
500-200373-3	MW-07	Total Recoverable	Water	3005A	
500-200373-4	MW-08	Total Recoverable	Water	3005A	
500-200373-5	MW-13	Total Recoverable	Water	3005A	
500-200373-6	MW-14	Total Recoverable	Water	3005A	
500-200373-7	MW-15	Total Recoverable	Water	3005A	
500-200373-8	Duplicate	Total Recoverable	Water	3005A	
MB 500-603070/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-603070/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 603326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total Recoverable	Water	6010C	603070
500-200373-2	MW-02	Total Recoverable	Water	6010C	603070
500-200373-3	MW-07	Total Recoverable	Water	6010C	603070
500-200373-4	MW-08	Total Recoverable	Water	6010C	603070
500-200373-5	MW-13	Total Recoverable	Water	6010C	603070
500-200373-6	MW-14	Total Recoverable	Water	6010C	603070
500-200373-7	MW-15	Total Recoverable	Water	6010C	603070
500-200373-8	Duplicate	Total Recoverable	Water	6010C	603070
MB 500-603070/1-A	Method Blank	Total Recoverable	Water	6010C	603070
LCS 500-603070/2-A	Lab Control Sample	Total Recoverable	Water	6010C	603070

### Prep Batch: 603343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-9	MW-03	Total Recoverable	Water	3005A	
500-200373-10	MW-04	Total Recoverable	Water	3005A	
MB 500-603343/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-603343/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 603368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total Recoverable	Water	6020A	603070
500-200373-2	MW-02	Total Recoverable	Water	6020A	603070
500-200373-3	MW-07	Total Recoverable	Water	6020A	603070
500-200373-4	MW-08	Total Recoverable	Water	6020A	603070
500-200373-5	MW-13	Total Recoverable	Water	6020A	603070
500-200373-6	MW-14	Total Recoverable	Water	6020A	603070
500-200373-7	MW-15	Total Recoverable	Water	6020A	603070
500-200373-8	Duplicate	Total Recoverable	Water	6020A	603070
MB 500-603070/1-A	Method Blank	Total Recoverable	Water	6020A	603070
LCS 500-603070/2-A	Lab Control Sample	Total Recoverable	Water	6020A	603070

### Analysis Batch: 603438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total Recoverable	Water	6020A	603070
500-200373-2	MW-02	Total Recoverable	Water	6020A	603070
500-200373-3	MW-07	Total Recoverable	Water	6020A	603070
500-200373-4	MW-08	Total Recoverable	Water	6020A	603070
500-200373-5	MW-13	Total Recoverable	Water	6020A	603070

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# QC Association Summary

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

Job ID: 500-200373-1

## Metals (Continued)

### Analysis Batch: 603438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-6	MW-14	Total Recoverable	Water	6020A	603070
500-200373-7	MW-15	Total Recoverable	Water	6020A	603070
500-200373-8	Duplicate	Total Recoverable	Water	6020A	603070
MB 500-603070/1-A	Method Blank	Total Recoverable	Water	6020A	603070
LCS 500-603070/2-A	Lab Control Sample	Total Recoverable	Water	6020A	603070

### Analysis Batch: 603603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-9	MW-03	Total Recoverable	Water	6020A	603343
500-200373-10	MW-04	Total Recoverable	Water	6020A	603343
MB 500-603343/1-A	Method Blank	Total Recoverable	Water	6020A	603343
LCS 500-603343/2-A	Lab Control Sample	Total Recoverable	Water	6020A	603343

### Analysis Batch: 603672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total Recoverable	Water	6020A	603070
500-200373-2	MW-02	Total Recoverable	Water	6020A	603070
500-200373-3	MW-07	Total Recoverable	Water	6020A	603070
500-200373-4	MW-08	Total Recoverable	Water	6020A	603070
500-200373-5	MW-13	Total Recoverable	Water	6020A	603070
500-200373-6	MW-14	Total Recoverable	Water	6020A	603070
500-200373-7	MW-15	Total Recoverable	Water	6020A	603070
500-200373-8	Duplicate	Total Recoverable	Water	6020A	603070
500-200373-9	MW-03	Total Recoverable	Water	6020A	603343
500-200373-10	MW-04	Total Recoverable	Water	6020A	603343
MB 500-603070/1-A	Method Blank	Total Recoverable	Water	6020A	603070
MB 500-603343/1-A	Method Blank	Total Recoverable	Water	6020A	603343
LCS 500-603070/2-A	Lab Control Sample	Total Recoverable	Water	6020A	603070
LCS 500-603343/2-A	Lab Control Sample	Total Recoverable	Water	6020A	603343

### Prep Batch: 603933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total/NA	Water	7470A	
500-200373-2	MW-02	Total/NA	Water	7470A	
500-200373-3	MW-07	Total/NA	Water	7470A	
500-200373-4	MW-08	Total/NA	Water	7470A	
500-200373-5	MW-13	Total/NA	Water	7470A	
500-200373-6	MW-14	Total/NA	Water	7470A	
500-200373-7	MW-15	Total/NA	Water	7470A	
500-200373-8	Duplicate	Total/NA	Water	7470A	
500-200373-9	MW-03	Total/NA	Water	7470A	
500-200373-10	MW-04	Total/NA	Water	7470A	
MB 500-603933/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-603933/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-200373-3 MS	MW-07	Total/NA	Water	7470A	
500-200373-3 MSD	MW-07	Total/NA	Water	7470A	
500-200373-3 DU	MW-07	Total/NA	Water	7470A	

### Analysis Batch: 603960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-9	MW-03	Total Recoverable	Water	6010C	603343

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# QC Association Summary

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

Job ID: 500-200373-1

## Metals (Continued)

### Analysis Batch: 603960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-10	MW-04	Total Recoverable	Water	6010C	603343
MB 500-603343/1-A	Method Blank	Total Recoverable	Water	6010C	603343
LCS 500-603343/2-A	Lab Control Sample	Total Recoverable	Water	6010C	603343

### Analysis Batch: 604154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total/NA	Water	7470A	603933
500-200373-2	MW-02	Total/NA	Water	7470A	603933
500-200373-3	MW-07	Total/NA	Water	7470A	603933
500-200373-4	MW-08	Total/NA	Water	7470A	603933
500-200373-5	MW-13	Total/NA	Water	7470A	603933
500-200373-6	MW-14	Total/NA	Water	7470A	603933
500-200373-7	MW-15	Total/NA	Water	7470A	603933
500-200373-8	Duplicate	Total/NA	Water	7470A	603933
500-200373-9	MW-03	Total/NA	Water	7470A	603933
500-200373-10	MW-04	Total/NA	Water	7470A	603933
MB 500-603933/12-A	Method Blank	Total/NA	Water	7470A	603933
LCS 500-603933/13-A	Lab Control Sample	Total/NA	Water	7470A	603933
500-200373-3 MS	MW-07	Total/NA	Water	7470A	603933
500-200373-3 MSD	MW-07	Total/NA	Water	7470A	603933
500-200373-3 DU	MW-07	Total/NA	Water	7470A	603933

## General Chemistry

### Analysis Batch: 603276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total/NA	Water	SM 2540C	
500-200373-2	MW-02	Total/NA	Water	SM 2540C	
500-200373-3	MW-07	Total/NA	Water	SM 2540C	
500-200373-4	MW-08	Total/NA	Water	SM 2540C	
500-200373-5	MW-13	Total/NA	Water	SM 2540C	
500-200373-6	MW-14	Total/NA	Water	SM 2540C	
500-200373-7	MW-15	Total/NA	Water	SM 2540C	
500-200373-8	Duplicate	Total/NA	Water	SM 2540C	
MB 500-603276/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-603276/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 603277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-9	MW-03	Total/NA	Water	SM 2540C	
500-200373-10	MW-04	Total/NA	Water	SM 2540C	
MB 500-603277/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-603277/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-200373-9 MS	MW-03	Total/NA	Water	SM 2540C	
500-200373-9 DU	MW-03	Total/NA	Water	SM 2540C	
500-200373-10 DU	MW-04	Total/NA	Water	SM 2540C	

### Analysis Batch: 606623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total/NA	Water	SM 4500 F C	
500-200373-2	MW-02	Total/NA	Water	SM 4500 F C	

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# QC Association Summary

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

Job ID: 500-200373-1

## General Chemistry (Continued)

### Analysis Batch: 606623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-3	MW-07	Total/NA	Water	SM 4500 F C	
500-200373-4	MW-08	Total/NA	Water	SM 4500 F C	
500-200373-5	MW-13	Total/NA	Water	SM 4500 F C	
500-200373-6	MW-14	Total/NA	Water	SM 4500 F C	
500-200373-7	MW-15	Total/NA	Water	SM 4500 F C	
500-200373-8	Duplicate	Total/NA	Water	SM 4500 F C	
500-200373-9	MW-03	Total/NA	Water	SM 4500 F C	
500-200373-10	MW-04	Total/NA	Water	SM 4500 F C	
MB 500-606623/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-606623/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 606948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-200373-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-200373-3	MW-07	Total/NA	Water	SM 4500 Cl- E	
500-200373-4	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-200373-5	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-200373-6	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-200373-7	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-200373-8	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-200373-9	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-200373-10	MW-04	Total/NA	Water	SM 4500 Cl- E	
MB 500-606948/53	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-606948/54	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-200373-1 MS	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-200373-1 MSD	MW-01	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 606949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-200373-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-200373-3	MW-07	Total/NA	Water	SM 4500 SO4 E	
500-200373-4	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-200373-5	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-200373-6	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-200373-7	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-200373-8	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-200373-9	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-200373-10	MW-04	Total/NA	Water	SM 4500 SO4 E	
MB 500-606949/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-606949/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-200373-1 MS	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-200373-1 MSD	MW-01	Total/NA	Water	SM 4500 SO4 E	



# QC Sample Results

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

Job ID: 500-200373-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-603070/1-A**  
**Matrix: Water**  
**Analysis Batch: 603326**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/09/21 08:29	06/09/21 19:05	1

**Lab Sample ID: LCS 500-603070/2-A**  
**Matrix: Water**  
**Analysis Batch: 603326**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.526		mg/L		105	80 - 120

**Lab Sample ID: MB 500-603343/1-A**  
**Matrix: Water**  
**Analysis Batch: 603960**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603343**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/10/21 08:40	06/14/21 10:23	1

**Lab Sample ID: LCS 500-603343/2-A**  
**Matrix: Water**  
**Analysis Batch: 603960**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603343**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.545		mg/L		109	80 - 120

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

**Lab Sample ID: MB 500-603070/1-A**  
**Matrix: Water**  
**Analysis Batch: 603368**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/09/21 20:01	1
Arsenic	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 20:01	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 20:01	1
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 20:01	1
Calcium	<0.20		0.20		mg/L		06/09/21 08:29	06/09/21 20:01	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 20:01	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/09/21 20:01	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:29	06/09/21 20:01	1
Molybdenum	<0.0050		0.0050		mg/L		06/09/21 08:29	06/09/21 20:01	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/09/21 20:01	1

**Lab Sample ID: MB 500-603070/1-A**  
**Matrix: Water**  
**Analysis Batch: 603438**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:29	06/10/21 14:41	1
Arsenic	<0.0010		0.0010		mg/L		06/09/21 08:29	06/10/21 14:41	1
Barium	<0.0025		0.0025		mg/L		06/09/21 08:29	06/10/21 14:41	1
Calcium	<0.20		0.20		mg/L		06/09/21 08:29	06/10/21 14:41	1

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# QC Sample Results

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

Job ID: 500-200373-1

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

**Lab Sample ID: MB 500-603070/1-A**  
**Matrix: Water**  
**Analysis Batch: 603438**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:29	06/10/21 14:41	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:29	06/10/21 14:41	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:29	06/10/21 14:41	1
Molybdenum	<0.0050		0.0050		mg/L		06/09/21 08:29	06/10/21 14:41	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:29	06/10/21 14:41	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:29	06/10/21 14:41	1

**Lab Sample ID: MB 500-603070/1-A**  
**Matrix: Water**  
**Analysis Batch: 603672**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		06/09/21 08:29	06/11/21 11:46	1

**Lab Sample ID: LCS 500-603070/2-A**  
**Matrix: Water**  
**Analysis Batch: 603368**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.540		mg/L		108	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120
Beryllium	0.0500	0.0478		mg/L		96	80 - 120
Cadmium	0.0500	0.0514		mg/L		103	80 - 120
Calcium	10.0	10.5		mg/L		105	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.519		mg/L		104	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Molybdenum	1.00	1.03		mg/L		103	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

**Lab Sample ID: LCS 500-603070/2-A**  
**Matrix: Water**  
**Analysis Batch: 603438**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.516		mg/L		103	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	2.00	2.04		mg/L		102	80 - 120
Calcium	10.0	11.0		mg/L		110	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120

**Lab Sample ID: LCS 500-603070/2-A**  
**Matrix: Water**  
**Analysis Batch: 603672**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.00	1.07		mg/L		107	80 - 120

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# QC Sample Results

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

Job ID: 500-200373-1

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

**Lab Sample ID: MB 500-603343/1-A**  
**Matrix: Water**  
**Analysis Batch: 603603**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603343**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/10/21 08:40	06/10/21 20:20	1
Arsenic	<0.0010		0.0010		mg/L		06/10/21 08:40	06/10/21 20:20	1
Barium	<0.0025		0.0025		mg/L		06/10/21 08:40	06/10/21 20:20	1
Beryllium	<0.0010		0.0010		mg/L		06/10/21 08:40	06/10/21 20:20	1
Cadmium	<0.00050		0.00050		mg/L		06/10/21 08:40	06/10/21 20:20	1
Calcium	<0.20		0.20		mg/L		06/10/21 08:40	06/10/21 20:20	1
Chromium	<0.0050		0.0050		mg/L		06/10/21 08:40	06/10/21 20:20	1
Cobalt	<0.0010		0.0010		mg/L		06/10/21 08:40	06/10/21 20:20	1
Lead	<0.00050		0.00050		mg/L		06/10/21 08:40	06/10/21 20:20	1
Molybdenum	<0.0050		0.0050		mg/L		06/10/21 08:40	06/10/21 20:20	1
Selenium	<0.0025		0.0025		mg/L		06/10/21 08:40	06/10/21 20:20	1
Thallium	<0.0020		0.0020		mg/L		06/10/21 08:40	06/10/21 20:20	1

**Lab Sample ID: MB 500-603343/1-A**  
**Matrix: Water**  
**Analysis Batch: 603672**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603343**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		06/10/21 08:40	06/11/21 12:55	1

**Lab Sample ID: LCS 500-603343/2-A**  
**Matrix: Water**  
**Analysis Batch: 603603**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603343**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0904		mg/L		90	80 - 120
Barium	2.00	1.85		mg/L		92	80 - 120
Beryllium	0.0500	0.0453		mg/L		91	80 - 120
Cadmium	0.0500	0.0462		mg/L		92	80 - 120
Calcium	10.0	9.65		mg/L		96	80 - 120
Chromium	0.200	0.192		mg/L		96	80 - 120
Cobalt	0.500	0.489		mg/L		98	80 - 120
Lead	0.100	0.0996		mg/L		100	80 - 120
Molybdenum	1.00	0.922		mg/L		92	80 - 120
Selenium	0.100	0.0940		mg/L		94	80 - 120
Thallium	0.100	0.0990		mg/L		99	80 - 120

**Lab Sample ID: LCS 500-603343/2-A**  
**Matrix: Water**  
**Analysis Batch: 603672**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603343**

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

# QC Sample Results

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

Job ID: 500-200373-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-603933/12-A**  
**Matrix: Water**  
**Analysis Batch: 604154**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 603933**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 08:33	1

**Lab Sample ID: LCS 500-603933/13-A**  
**Matrix: Water**  
**Analysis Batch: 604154**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 603933**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00196		mg/L		98	80 - 120

**Lab Sample ID: 500-200373-3 MS**  
**Matrix: Water**  
**Analysis Batch: 604154**

**Client Sample ID: MW-07**  
**Prep Type: Total/NA**  
**Prep Batch: 603933**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000953		mg/L		95	75 - 125

**Lab Sample ID: 500-200373-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 604154**

**Client Sample ID: MW-07**  
**Prep Type: Total/NA**  
**Prep Batch: 603933**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000979		mg/L		98	75 - 125	3	20

**Lab Sample ID: 500-200373-3 DU**  
**Matrix: Water**  
**Analysis Batch: 604154**

**Client Sample ID: MW-07**  
**Prep Type: Total/NA**  
**Prep Batch: 603933**

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

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

**Lab Sample ID: MB 500-603276/1**  
**Matrix: Water**  
**Analysis Batch: 603276**

**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			06/10/21 02:12	1

**Lab Sample ID: LCS 500-603276/2**  
**Matrix: Water**  
**Analysis Batch: 603276**

**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	282		mg/L		113	80 - 120

# QC Sample Results

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

Job ID: 500-200373-1

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

**Lab Sample ID: MB 500-603277/1**  
**Matrix: Water**  
**Analysis Batch: 603277**

**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			06/10/21 04:01	1

**Lab Sample ID: LCS 500-603277/2**  
**Matrix: Water**  
**Analysis Batch: 603277**

**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: 500-200373-9 MS**  
**Matrix: Water**  
**Analysis Batch: 603277**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	940		250	1190		mg/L		102	75 - 125

**Lab Sample ID: 500-200373-9 DU**  
**Matrix: Water**  
**Analysis Batch: 603277**

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	940		898		mg/L		4	5

**Lab Sample ID: 500-200373-10 DU**  
**Matrix: Water**  
**Analysis Batch: 603277**

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2000		2090		mg/L		2	5

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

**Lab Sample ID: MB 500-606948/53**  
**Matrix: Water**  
**Analysis Batch: 606948**

**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			06/28/21 20:59	1

**Lab Sample ID: LCS 500-606948/54**  
**Matrix: Water**  
**Analysis Batch: 606948**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	20.4		mg/L		102	85 - 115

# QC Sample Results

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

Job ID: 500-200373-1

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

Lab Sample ID: 500-200373-1 MS  
Matrix: Water  
Analysis Batch: 606948

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	18		20.0	36.2		mg/L		89	75 - 125

Lab Sample ID: 500-200373-1 MSD  
Matrix: Water  
Analysis Batch: 606948

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	18		20.0	36.3		mg/L		90	75 - 125	0	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-606623/3  
Matrix: Water  
Analysis Batch: 606623

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			06/28/21 17:55	1

Lab Sample ID: LCS 500-606623/4  
Matrix: Water  
Analysis Batch: 606623

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	11.2		mg/L		112	80 - 120

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

Lab Sample ID: MB 500-606949/15  
Matrix: Water  
Analysis Batch: 606949

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			06/28/21 21:18	1

Lab Sample ID: LCS 500-606949/16  
Matrix: Water  
Analysis Batch: 606949

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	19.2		mg/L		96	80 - 120

Lab Sample ID: 500-200373-1 MS  
Matrix: Water  
Analysis Batch: 606949

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	380		20.0	406	4	mg/L		107	75 - 125

# QC Sample Results

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

Job ID: 500-200373-1

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

Lab Sample ID: 500-200373-1 MSD  
Matrix: Water  
Analysis Batch: 606949

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	380		20.0	406	4	mg/L		111	75 - 125	0	20

- 1
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- 9
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- 11
- 12



**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**

<b>Client Information</b>		Sampler: <u>Erin Pulson</u>	Lab PM: <u>Mockler Diana J</u>	Carrier Tracking No(s):	COC No 500-92124-41061 1		
Client Contact: Richard Gnat		Phone: <u>2622781621</u>	E-Mail: <u>Diana.Mockler@Eurofinset.com</u>	State of Origin:	Page Page 1 of 1		
Company: KPRG and Associates Inc		PWSID:	<b>Analysis Requested</b>		Job #: <u>500-200373</u>		
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested:	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:		
City: Brookfield		TAT Requested (days):					
State Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Phone: _____		PO #: 4502041043					
Email: richardg@kprginc.com		WO #:					
Project Name: Will County CCR Event Desc Quarterly GW Monitoring		Project #: 50011609			Preservation Codes A HCL          M Hexane B NaOH        N None C Zn Acetate   O AsNaO2 D Nitric Acid   P Na2O4S E NaHSO4      Q Na2SO3 F MeOH        R Na2S2O3 G Amchlor     S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice            U Acetone J DI Water     V MCAA K EDTA        W pH 4-5 L EDA          Z other (specify)  Other: _____		
Site: Illinois		SSOW#:					
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code:	<b>Special Instructions/Note</b>
						D D N	
1	MW-01	6-7	1035		Water	X X X	
2	MW-02	6-7	1307		Water		
	<del>MW-03</del>				Water		
	<del>MW-04</del>				Water		
3	MW-07	6-7	1152		Water		
4	MW-08	6-7	1354		Water		
5	MW-13	6-7	1440		Water		
6	MW-14	6-7	1235		Water		
7	MW-15	6-7	1117		Water	X X X	
8	Duplicate	6-7	-			X X X	

**Possible Hazard Identification**  
 Non-Hazard    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: <u>[Signature]</u>	Date/Time: <u>6/7/21</u>	Company: <u>EPR</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6/8/21 1045</u>	Company: <u>JA</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/9/21 1150</u>	Company: <u>JA</u>	Received by: <u>[Signature]</u>	Date/Time: <u>6/8/21 1150</u>	Company: <u>EPA/CHE</u>

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

Cooler Temperature(s) °C and Other Remarks: 2.6, 3.2, 7.8





**Eurofins TestAmerica, Chicago**

2417 Bond Street  
University Park, IL 60484  
Phone (708) 534-5200 Phone (708) 534-5211

**Chain of Custody Record**

eurofins Environment Testing America

<b>Client Information</b>		Sampler		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1							
Client Contact: Richard Gnat		Phone		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1							
Company KPRG and Associates, Inc.		PWSID		<b>Analysis Requested</b>						Job #: <b>500-200323</b>					
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested		Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2640C TDS, 4500FC - Fluoride SM4500CIE Chloride, SM4500S04E - Sulfate						Preservation Codes					
City Brookfield		TAT Requested (days):								A HCL		M - Hexane			
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								B NaOH		N None			
Phone 500-200373 COC		PO #: 4502041043								C - Zn Acetate		O - AsNaO2			
Email richardg@kprginc.com		WO #:								D - Nitric Acid		P - Na2O4S			
Project Name Will County CCR Event Desc: Quarterly GW Monitoring		Project #: 50011609		E NaHSO4		Q Na2SO3									
Site Illinois		SSOW#:		F - MeOH		R Na2S2O3									
				G - Amchlor		S - H2SO4									
				H - Ascorbic Acid		T - TSP Dodecahydrate									
				I Ice		U - Acetone									
				J - DI Water		V - MCAA									
				K EDTA		W - pH 4-5									
				L - EDA		Z other (specify)									
				Other:											
				Total Number of containers											
				Special Instructions/Note:											
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)										
<del>MW-01</del>					Water										
MW-02					Water										
MW-03		6-8	1040		Water	X	X	X	X						
MW-04		6-8	1003		Water	X	X	X	X						
<del>MW-07</del>					Water										
<del>MW-08</del>					Water										
MW-13					Water										
MW-14					Water										
MW-15					Water										
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>									
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Deliverable Requested I, II, III, IV Other (specify)						Special Instructions/QC Requirements									
Empty Kit Relinquished by:		Date		Time		Method of Shipment:									
Relinquished by <i>Si Bly</i>		Date/Time <i>6/9/21 1108</i>		Company		Received by <i>P. Neal</i>		Date/Time <i>6/9/21 1108</i>		Company <i>EY</i>					
Relinquished by <i>P. Neal</i>		Date/Time <i>6/9/21 1206</i>		Company <i>ETA</i>		Received by <i>Shirley Scott</i>		Date/Time <i>6/9/21 1206</i>		Company <i>ETA-GHI</i>					
Relinquished by		Date/Time		Company		Received by		Date/Time		Company					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks. <i>1.9 36qt.</i>											





# Chain of Custody Record

<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lat. Pkt.:	Carrier Tracking No(s):	COC No.:
Client Contact:		Mockler, Diana J			500-149413.1
Shipping/Receiving		Phone:	E-Mail:	State of Origin:	Page:
TestAmerica Laboratories, Inc.			Diana.Mockler@EurofinsTest.com	Illinois	Page 1 of 1
Address:		Accreditations Required (See note):		Job #:	500-200373-1
13715 Rider Trail North,		NELAP - Illinois		<b>Preservation Codes:</b>	
City:	Earth City	<b>Analysis Requested</b>		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 Other:	
State, Zip:	MO, 63045	Due Date Requested:		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Phone:	314-298-8566(Tel) 314-298-8757(Fax)	TAT Requested (days):		Total Number of Containers	
Email:		6/28/2021			
Project Name:	Will County CCR	PO #:			
Site:	NRG Midwest Generation Will County	WO #:			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wash/oli)
MW-01 (500-200373-1)	6/7/21	10:35 Central	Water	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List
MW-02 (500-200373-2)	6/7/21	13:07 Central	Water	X	X
MW-07 (500-200373-3)	6/7/21	11:52 Central	Water	X	X
MW-08 (500-200373-4)	6/7/21	13:54 Central	Water	X	X
MW-13 (500-200373-5)	6/7/21	14:40 Central	Water	X	X
MW-14 (500-200373-6)	6/7/21	12:35 Central	Water	X	X
MW-15 (500-200373-7)	6/7/21	11:17 Central	Water	X	X
Duplicate (500-200373-8)	6/7/21	Central	Water	X	X
<p><b>Special Instructions/Note:</b></p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;</p>					
<p><b>Field Filtered Sample (Yes or No)</b> <input checked="" type="checkbox"/></p> <p><b>Perform MS/MSD (Yes or No)</b> <input checked="" type="checkbox"/></p> <p><b>Accreditations Required (Yes or No)</b> <input checked="" type="checkbox"/></p>					
<p><b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b></p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>					
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Primary Deliverable Rank: 2</p>					
Empty Kit Relinquished by:		Date:	Time:		
Relinquished by: <i>[Signature]</i>		6/19/21	11:18		
Relinquished by: <i>[Signature]</i>					
Relinquished by: <i>[Signature]</i>					
Custody Seals Intact:		Cooler Temperature(s) °C and Other Remarks:			
Δ Yes Δ No					



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-200373-1

**Login Number: 200373**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,2.8,1.9
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

Job ID: 500-200373-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-200373-1**

**Date Collected: 06/07/21 10:35**

**Matrix: Water**

**Date Received: 06/08/21 11:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 19:12	EEN	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 21:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	603672	06/11/21 11:53	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 14:47	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 08:56	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603276	06/10/21 02:53	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	606948	06/28/21 20:59	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:13	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	606949	06/28/21 21:19	MS	TAL CHI

**Client Sample ID: MW-02**

**Lab Sample ID: 500-200373-2**

**Date Collected: 06/07/21 13:07**

**Matrix: Water**

**Date Received: 06/08/21 11:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 19:15	EEN	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 21:17	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	603672	06/11/21 11:56	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 14:51	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 08:58	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603276	06/10/21 02:55	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	606948	06/28/21 21:00	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:16	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606949	06/28/21 21:20	MS	TAL CHI

**Client Sample ID: MW-07**

**Lab Sample ID: 500-200373-3**

**Date Collected: 06/07/21 11:52**

**Matrix: Water**

**Date Received: 06/08/21 11:50**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 19:19	EEN	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 21:21	FXG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-200373-1

**Client Sample ID: MW-07**  
**Date Collected: 06/07/21 11:52**  
**Date Received: 06/08/21 11:50**

**Lab Sample ID: 500-200373-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	603672	06/11/21 12:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 14:54	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 09:00	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603276	06/10/21 02:58	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	606948	06/28/21 21:00	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:19	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606949	06/28/21 21:20	MS	TAL CHI

**Client Sample ID: MW-08**  
**Date Collected: 06/07/21 13:54**  
**Date Received: 06/08/21 11:50**

**Lab Sample ID: 500-200373-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 19:22	EEN	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 21:24	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	603672	06/11/21 12:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 14:58	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 09:13	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603276	06/10/21 03:01	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	606948	06/28/21 21:00	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:22	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606949	06/28/21 21:21	MS	TAL CHI

**Client Sample ID: MW-13**  
**Date Collected: 06/07/21 14:40**  
**Date Received: 06/08/21 11:50**

**Lab Sample ID: 500-200373-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 19:25	EEN	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 21:28	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	603672	06/11/21 12:07	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 15:01	FXG	TAL CHI

Eurofins TestAmerica, Chicago



# Lab Chronicle

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

Job ID: 500-200373-1

**Client Sample ID: MW-13**

**Date Collected: 06/07/21 14:40**

**Date Received: 06/08/21 11:50**

**Lab Sample ID: 500-200373-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 09:15	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603276	06/10/21 03:03	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	606948	06/28/21 21:01	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	606949	06/28/21 21:21	MS	TAL CHI

**Client Sample ID: MW-14**

**Date Collected: 06/07/21 12:35**

**Date Received: 06/08/21 11:50**

**Lab Sample ID: 500-200373-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 19:39	EEN	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 21:31	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	603672	06/11/21 12:10	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 15:05	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 09:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603276	06/10/21 03:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	606948	06/28/21 21:01	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:38	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606949	06/28/21 21:22	MS	TAL CHI

**Client Sample ID: MW-15**

**Date Collected: 06/07/21 11:17**

**Date Received: 06/08/21 11:50**

**Lab Sample ID: 500-200373-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 19:42	EEN	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 21:35	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	603672	06/11/21 12:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 15:08	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 09:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603276	06/10/21 03:08	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	606948	06/28/21 21:02	MS	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-200373-1

**Client Sample ID: MW-15**  
**Date Collected: 06/07/21 11:17**  
**Date Received: 06/08/21 11:50**

**Lab Sample ID: 500-200373-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:40	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606949	06/28/21 21:22	MS	TAL CHI

**Client Sample ID: Duplicate**  
**Date Collected: 06/07/21 00:00**  
**Date Received: 06/08/21 11:50**

**Lab Sample ID: 500-200373-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 19:46	EEN	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 21:38	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	603672	06/11/21 12:17	FXG	TAL CHI
Total Recoverable	Prep	3005A			603070	06/09/21 08:29	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 15:15	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 09:22	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603276	06/10/21 03:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	606948	06/28/21 21:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:43	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606949	06/28/21 21:23	MS	TAL CHI

**Client Sample ID: MW-03**  
**Date Collected: 06/08/21 10:40**  
**Date Received: 06/09/21 12:06**

**Lab Sample ID: 500-200373-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603343	06/10/21 08:40	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603960	06/14/21 10:29	JJB	TAL CHI
Total Recoverable	Prep	3005A			603343	06/10/21 08:40	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603603	06/10/21 20:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			603343	06/10/21 08:40	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	603672	06/11/21 13:02	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 09:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603277	06/10/21 04:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	606948	06/28/21 21:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	606949	06/28/21 21:23	MS	TAL CHI

# Lab Chronicle

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

Job ID: 500-200373-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-200373-10**

**Date Collected: 06/08/21 10:03**

**Matrix: Water**

**Date Received: 06/09/21 12:06**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603343	06/10/21 08:40	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603960	06/14/21 10:32	JJB	TAL CHI
Total Recoverable	Prep	3005A			603343	06/10/21 08:40	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603603	06/10/21 20:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			603343	06/10/21 08:40	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	603672	06/11/21 13:05	FXG	TAL CHI
Total/NA	Prep	7470A			603933	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 09:26	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	603277	06/10/21 04:13	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	606948	06/28/21 21:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606623	06/28/21 18:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606949	06/28/21 21:23	MS	TAL CHI

**Laboratory References:**

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





## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-200373-2  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat

*Jodie Bracken*

Authorized for release by:  
7/22/2021 3:42:27 PM

Jodie Bracken, Project Management Assistant II  
[Jodie.Bracken@Eurofinset.com](mailto:Jodie.Bracken@Eurofinset.com)

Designee for

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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# Case Narrative

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

Job ID: 500-200373-2

## Job ID: 500-200373-2

### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

#### Job Narrative 500-200373-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/8/2021 11:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.9° C, 2.6° C, 2.8° C and 3.2° C.

#### RAD

Methods 903.0, 9315: Radium 226 prep batch 160-513629

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-01 (500-200373-1), MW-02 (500-200373-2), MW-07 (500-200373-3), MW-08 (500-200373-4), MW-13 (500-200373-5), MW-14 (500-200373-6), MW-15 (500-200373-7), Duplicate (500-200373-8), (LCS 160-513629/1-A), (MB 160-513629/23-A) and (500-200373-D-1-G DU)

Methods 903.0, 9315: Radium-226 Batch 513629

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-01 (500-200373-1), MW-02 (500-200373-2), MW-07 (500-200373-3), MW-08 (500-200373-4), MW-13 (500-200373-5), MW-14 (500-200373-6), MW-15 (500-200373-7), Duplicate (500-200373-8) and (500-200373-D-1-G DU)

Methods 903.0, 9315: Radium-226 Batch 513775

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-03 (500-200373-9), MW-04 (500-200373-10), (LCS 160-513775/1-A), (MB 160-513775/17-A) and (500-200373-E-9-B DU)

Methods 904.0, 9320: Radium 228 prep batch 160-513634

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-01 (500-200373-1), MW-02 (500-200373-2), MW-07 (500-200373-3), MW-08 (500-200373-4), MW-13 (500-200373-5), MW-14 (500-200373-6), MW-15 (500-200373-7), Duplicate (500-200373-8), (LCS 160-513634/1-A), (MB 160-513634/23-A) and (500-200373-D-1-F DU)

Methods 904.0, 9320: Radium 228 prep batch 160-513780

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-03 (500-200373-9), MW-04 (500-200373-10), (LCS 160-513780/1-A), (MB 160-513780/17-A) and (500-200373-E-9-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

Job ID: 500-200373-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SL = Eurofins TestAmerica, 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

Job ID: 500-200373-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-200373-1	MW-01	Water	06/07/21 10:35	06/08/21 11:50
500-200373-2	MW-02	Water	06/07/21 13:07	06/08/21 11:50
500-200373-3	MW-07	Water	06/07/21 11:52	06/08/21 11:50
500-200373-4	MW-08	Water	06/07/21 13:54	06/08/21 11:50
500-200373-5	MW-13	Water	06/07/21 14:40	06/08/21 11:50
500-200373-6	MW-14	Water	06/07/21 12:35	06/08/21 11:50
500-200373-7	MW-15	Water	06/07/21 11:17	06/08/21 11:50
500-200373-8	Duplicate	Water	06/07/21 00:00	06/08/21 11:50
500-200373-9	MW-03	Water	06/08/21 10:40	06/09/21 12:06
500-200373-10	MW-04	Water	06/08/21 10:03	06/09/21 12:06

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# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-01**

**Lab Sample ID: 500-200373-1**

Date Collected: 06/07/21 10:35

Matrix: Water

Date Received: 06/08/21 11:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116		0.0761	0.0768	1.00	0.103	pCi/L	06/10/21 10:39	07/16/21 15:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					06/10/21 10:39	07/16/21 15:20	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.136	U	0.220	0.221	1.00	0.372	pCi/L	06/10/21 11:31	06/29/21 14:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		40 - 110					06/10/21 11:31	06/29/21 14:33	1
Y Carrier	83.4		40 - 110					06/10/21 11:31	06/29/21 14:33	1

**Method: 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	0.252	U	0.233	0.234	5.00	0.372	pCi/L		07/21/21 20:56	1

# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-02**

**Lab Sample ID: 500-200373-2**

Date Collected: 06/07/21 13:07

Matrix: Water

Date Received: 06/08/21 11:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.168		0.0858	0.0871	1.00	0.111	pCi/L	06/10/21 10:39	07/16/21 15:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					06/10/21 10:39	07/16/21 15:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.372	U	0.271	0.273	1.00	0.424	pCi/L	06/10/21 11:31	06/29/21 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					06/10/21 11:31	06/29/21 14:34	1
Y Carrier	83.7		40 - 110					06/10/21 11:31	06/29/21 14:34	1

**Method: 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	0.540		0.284	0.287	5.00	0.424	pCi/L		07/21/21 20:56	1

# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-07**

**Lab Sample ID: 500-200373-3**

Date Collected: 06/07/21 11:52

Matrix: Water

Date Received: 06/08/21 11:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.375		0.111	0.116	1.00	0.107	pCi/L	06/10/21 10:39	07/16/21 15:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/10/21 10:39	07/16/21 15:21	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.873		0.290	0.300	1.00	0.377	pCi/L	06/10/21 11:31	06/29/21 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		40 - 110					06/10/21 11:31	06/29/21 14:34	1
Y Carrier	83.7		40 - 110					06/10/21 11:31	06/29/21 14:34	1

**Method: 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	1.25		0.311	0.322	5.00	0.377	pCi/L		07/21/21 20:56	1



# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-08**

**Lab Sample ID: 500-200373-4**

Date Collected: 06/07/21 13:54

Matrix: Water

Date Received: 06/08/21 11:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.245		0.0900	0.0927	1.00	0.0932	pCi/L	06/10/21 10:39	07/19/21 08:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					06/10/21 10:39	07/19/21 08:40	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.523		0.295	0.299	1.00	0.445	pCi/L	06/10/21 11:31	06/29/21 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					06/10/21 11:31	06/29/21 14:34	1
Y Carrier	82.2		40 - 110					06/10/21 11:31	06/29/21 14:34	1

**Method: 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	0.768		0.308	0.313	5.00	0.445	pCi/L		07/21/21 20:56	1

# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-13**

**Lab Sample ID: 500-200373-5**

Date Collected: 06/07/21 14:40

Matrix: Water

Date Received: 06/08/21 11:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.300		0.129	0.132	1.00	0.152	pCi/L	06/10/21 10:39	07/16/21 15:26	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	81.0		40 - 110					06/10/21 10:39	07/16/21 15:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.774		0.472	0.477	1.00	0.727	pCi/L	06/10/21 11:31	06/29/21 14:34	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Ba Carrier	81.0		40 - 110					06/10/21 11:31	06/29/21 14:34	1
Y Carrier	83.7		40 - 110					06/10/21 11:31	06/29/21 14:34	1

**Method: 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	1.07		0.489	0.495	5.00	0.727	pCi/L		07/21/21 20:56	1

# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-14**

**Lab Sample ID: 500-200373-6**

Date Collected: 06/07/21 12:35

Matrix: Water

Date Received: 06/08/21 11:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175		0.0794	0.0809	1.00	0.0940	pCi/L	06/10/21 10:39	07/16/21 15:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/10/21 10:39	07/16/21 15:30	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0109	U	0.205	0.205	1.00	0.368	pCi/L	06/10/21 11:31	06/29/21 14:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/10/21 11:31	06/29/21 14:34	1
Y Carrier	83.7		40 - 110					06/10/21 11:31	06/29/21 14:34	1

**Method: 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	0.185	U	0.220	0.220	5.00	0.368	pCi/L		07/21/21 20:56	1

# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-15**

**Lab Sample ID: 500-200373-7**

Date Collected: 06/07/21 11:17

Matrix: Water

Date Received: 06/08/21 11:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.229		0.0905	0.0928	1.00	0.100	pCi/L	06/10/21 10:39	07/16/21 18:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					06/10/21 10:39	07/16/21 18:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.262	U	0.248	0.249	1.00	0.400	pCi/L	06/10/21 11:31	06/29/21 14:35	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					06/10/21 11:31	06/29/21 14:35	1
Y Carrier	84.9		40 - 110					06/10/21 11:31	06/29/21 14:35	1

**Method: 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	0.491		0.264	0.266	5.00	0.400	pCi/L		07/21/21 20:56	1

# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-200373-8**

Date Collected: 06/07/21 00:00

Matrix: Water

Date Received: 06/08/21 11:50

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.274		0.104	0.107	1.00	0.114	pCi/L	06/10/21 10:39	07/16/21 18:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		40 - 110					06/10/21 10:39	07/16/21 18:12	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.540		0.320	0.324	1.00	0.486	pCi/L	06/10/21 11:31	06/29/21 14:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.9		40 - 110					06/10/21 11:31	06/29/21 14:36	1
Y Carrier	84.1		40 - 110					06/10/21 11:31	06/29/21 14:36	1

**Method: 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	0.814		0.336	0.341	5.00	0.486	pCi/L		07/21/21 20:56	1

# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-03**

**Lab Sample ID: 500-200373-9**

Date Collected: 06/08/21 10:40

Matrix: Water

Date Received: 06/09/21 12:06

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.226		0.0961	0.0982	1.00	0.108	pCi/L	06/11/21 09:13	07/16/21 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					06/11/21 09:13	07/16/21 11:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.631		0.393	0.397	1.00	0.607	pCi/L	06/11/21 09:49	06/29/21 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					06/11/21 09:49	06/29/21 10:49	1
Y Carrier	84.5		40 - 110					06/11/21 09:49	06/29/21 10:49	1

## Method: 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	0.857		0.405	0.409	5.00	0.607	pCi/L		07/22/21 12:13	1

# Client Sample Results

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

Job ID: 500-200373-2

**Client Sample ID: MW-04**

**Lab Sample ID: 500-200373-10**

Date Collected: 06/08/21 10:03

Matrix: Water

Date Received: 06/09/21 12:06

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.247		0.0969	0.0994	1.00	0.108	pCi/L	06/11/21 09:13	07/16/21 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					06/11/21 09:13	07/16/21 11:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.180	U	0.273	0.273	1.00	0.459	pCi/L	06/11/21 09:49	06/29/21 10:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					06/11/21 09:49	06/29/21 10:50	1
Y Carrier	84.5		40 - 110					06/11/21 09:49	06/29/21 10:50	1

**Method: 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	0.427	U	0.290	0.291	5.00	0.459	pCi/L		07/22/21 12:13	1

# Definitions/Glossary

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

Job ID: 500-200373-2

## Qualifiers

### Rad

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Job ID: 500-200373-2

## Rad

### Prep Batch: 513629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total/NA	Water	PrecSep-21	
500-200373-2	MW-02	Total/NA	Water	PrecSep-21	
500-200373-3	MW-07	Total/NA	Water	PrecSep-21	
500-200373-4	MW-08	Total/NA	Water	PrecSep-21	
500-200373-5	MW-13	Total/NA	Water	PrecSep-21	
500-200373-6	MW-14	Total/NA	Water	PrecSep-21	
500-200373-7	MW-15	Total/NA	Water	PrecSep-21	
500-200373-8	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-513629/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-513629/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-200373-1 DU	MW-01	Total/NA	Water	PrecSep-21	

### Prep Batch: 513634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-1	MW-01	Total/NA	Water	PrecSep_0	
500-200373-2	MW-02	Total/NA	Water	PrecSep_0	
500-200373-3	MW-07	Total/NA	Water	PrecSep_0	
500-200373-4	MW-08	Total/NA	Water	PrecSep_0	
500-200373-5	MW-13	Total/NA	Water	PrecSep_0	
500-200373-6	MW-14	Total/NA	Water	PrecSep_0	
500-200373-7	MW-15	Total/NA	Water	PrecSep_0	
500-200373-8	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-513634/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-513634/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-200373-1 DU	MW-01	Total/NA	Water	PrecSep_0	

### Prep Batch: 513775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-9	MW-03	Total/NA	Water	PrecSep-21	
500-200373-10	MW-04	Total/NA	Water	PrecSep-21	
MB 160-513775/17-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-513775/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-200373-9 DU	MW-03	Total/NA	Water	PrecSep-21	

### Prep Batch: 513780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200373-9	MW-03	Total/NA	Water	PrecSep_0	
500-200373-10	MW-04	Total/NA	Water	PrecSep_0	
MB 160-513780/17-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-513780/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-200373-9 DU	MW-03	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-200373-2

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

**Lab Sample ID: MB 160-513629/23-A**  
**Matrix: Water**  
**Analysis Batch: 518943**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 513629**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02430	U	0.0478	0.0478	1.00	0.0850	pCi/L	06/10/21 10:39	07/16/21 18:13	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	110		40 - 110				06/10/21 10:39		07/16/21 18:13	1

**Lab Sample ID: LCS 160-513629/1-A**  
**Matrix: Water**  
**Analysis Batch: 518943**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 513629**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.66		1.12	1.00	0.123	pCi/L	94	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	73.5		40 - 110						

**Lab Sample ID: 500-200373-1 DU**  
**Matrix: Water**  
**Analysis Batch: 518943**

**Client Sample ID: MW-01**  
**Prep Type: Total/NA**  
**Prep Batch: 513629**

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.116		0.1137	U	0.0872	1.00	0.125	pCi/L	0.01	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	93.1		40 - 110							

**Lab Sample ID: MB 160-513775/17-A**  
**Matrix: Water**  
**Analysis Batch: 518943**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 513775**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1999		0.0972	0.0989	1.00	0.122	pCi/L	06/11/21 09:13	07/16/21 13:37	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110				06/11/21 09:13		07/16/21 13:37	1

**Lab Sample ID: LCS 160-513775/1-A**  
**Matrix: Water**  
**Analysis Batch: 518943**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 513775**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.918		1.04	1.00	0.118	pCi/L	87	75 - 125

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# QC Sample Results

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

Job ID: 500-200373-2

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

Lab Sample ID: LCS 160-513775/1-A  
Matrix: Water  
Analysis Batch: 518943

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 513775

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.4		40 - 110

Lab Sample ID: 500-200373-9 DU  
Matrix: Water  
Analysis Batch: 519494

Client Sample ID: MW-03  
Prep Type: Total/NA  
Prep Batch: 513775

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	0.226		0.2498		0.101	1.00	0.109	pCi/L	0.12	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	82.0		40 - 110

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

Lab Sample ID: MB 160-513634/23-A  
Matrix: Water  
Analysis Batch: 516592

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 513634

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	110		40 - 110	06/10/21 11:31	06/29/21 14:36	1
Y Carrier	88.2		40 - 110	06/10/21 11:31	06/29/21 14:36	1

Lab Sample ID: LCS 160-513634/1-A  
Matrix: Water  
Analysis Batch: 516499

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 513634

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec.
									Limits
Radium-228	9.58	10.76		1.29	1.00	0.448	pCi/L	112	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	73.5		40 - 110
Y Carrier	83.4		40 - 110

Lab Sample ID: 500-200373-1 DU  
Matrix: Water  
Analysis Batch: 516593

Client Sample ID: MW-01  
Prep Type: Total/NA  
Prep Batch: 513634

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-228	0.136	U	0.3030	U	0.269	1.00	0.428	pCi/L	0.34	1

Eurofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-200373-2

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

**Lab Sample ID: 500-200373-1 DU**  
**Matrix: Water**  
**Analysis Batch: 516593**

**Client Sample ID: MW-01**  
**Prep Type: Total/NA**  
**Prep Batch: 513634**

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.1		40 - 110
Y Carrier	81.9		40 - 110

**Lab Sample ID: MB 160-513780/17-A**  
**Matrix: Water**  
**Analysis Batch: 516593**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 513780**

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.2927	U	0.307	0.308	1.00	0.500	pCi/L	06/11/21 09:49	06/29/21 10:44	1

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110	06/11/21 09:49	06/29/21 10:44	1
Y Carrier	83.0		40 - 110	06/11/21 09:49	06/29/21 10:44	1

**Lab Sample ID: LCS 160-513780/1-A**  
**Matrix: Water**  
**Analysis Batch: 516496**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 513780**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.4		40 - 110
Y Carrier	84.9		40 - 110

**Lab Sample ID: 500-200373-9 DU**  
**Matrix: Water**  
**Analysis Batch: 516496**

**Client Sample ID: MW-03**  
**Prep Type: Total/NA**  
**Prep Batch: 513780**

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.631		0.9591		0.368	1.00	0.486	pCi/L	0.43	1

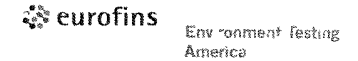
  

Carrier	%Yield	Qualifier	Limits
Ba Carrier	82.0		40 - 110
Y Carrier	86.4		40 - 110

**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <i>Erin Pulson</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s):		COC No: 500-92124-41061 1	
Client Contact: Richard Gnat		Phone: <i>262 278 1021</i>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin:		Page: Page 1 of 1	
Company: KPRG and Associates Inc		PWSID:		<b>Analysis Requested</b>		Job #: <i>500-200373</i>		Preservation Codes: A HCL      M Hexane B NaOH      N None C Zn Acetate      O AsNaO2 D Nitric Acid      P Na2O4S E NaHSO4      Q Na2SO3 F MeOH      R Na2S2O3 G Amchlor      S H2SO4 H Ascorbic Acid      T TSP Dodecahydrate I Ice      U Acetone J DI Water      V MCAA K EDTA      W pH 4-5 L EDA      Z other (specify) Other:	
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers:	
City: Brookfield		TAT Requested (days):		903.0, 904.0		6010C, 6020A, 7470A		2540C, 4500_F_C, SM4500_SO4_E	
State Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #		WO #		Special Instructions/Note	
Phone: 500-200373 COC		Project Name: Will County CCR Event Desc Quarterly GW Monitoring		Project #		SSOW#			
Email: richardg@kprginc.com		Site: Illinois		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		D		D		N	
1 MW-01		<i>6-7</i>		<i>1035</i>				Water	
2 MW-02		<i>6-7</i>		<i>1307</i>				Water	
<del>MW-03</del>								Water	
<del>MW-04</del>								Water	
3 MW-07		<i>6-7</i>		<i>1152</i>				Water	
4 MW-08		<i>6-7</i>		<i>1354</i>				Water	
5 MW-13		<i>6-7</i>		<i>1440</i>				Water	
6 MW-14		<i>6-7</i>		<i>1235</i>				Water	
7 MW-15		<i>6-7</i>		<i>1117</i>				Water	
8 Duplicate		<i>6-7</i>		<i>-</i>				Water	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements				
Empty Kit Relinquished by		Date		Time		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: <i>6/7/21</i>		Company: <i>EPG</i>		Received by: <i>[Signature]</i>		Date/Time: <i>6/8/21 1045</i>	
Relinquished by: <i>[Signature]</i>		Date/Time: <i>6/9/21 1150</i>		Company: <i>JA</i>		Received by: <i>[Signature]</i>		Date/Time: <i>6/8/21 1150</i>	
Relinquished by: <i>[Signature]</i>		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>2.6, 3.2, 7.8</i>					

**Eurofins TestAmerica, Chicago**

2417 Bond Street  
 University Park, IL 60484  
 Phone (708) 534-5200 Phone (708) 534-5211

**Chain of Custody Record**

<b>Client Information</b>		Sampler		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1												
Client Contact: Richard Gnat		Phone		E-Mail: Diana Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1												
Company: KPRG and Associates, Inc.		PWSID:		<b>Analysis Requested</b>						Job #: <u>500-200323</u>										
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested								Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2640C TDS, 4500FC - Fluoride SM4500ClE Chloride, SM4500SO4E - Sulfate		Preservation Codes A HCL                    M - Hexane B NaOH                    N None C - Zn Acetate            O - AsNaO2 D - Nitric Acid            P - Na2O4S E NaHSO4                    Q Na2SO3 F - MeOH                    R Na2S2O3 G - Amchlor                S - H2SO4 H - Ascorbic Acid        T - TSP Dodecahydrate I Ice                            U - Acetone J - DI Water                V - MCAA K EDTA                      W - pH 4-5 L - EDA                      Z other (specify)  Other:								
City: Brookfield		TAT Requested (days):																		
State Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																		
Phone: 500-200373 COC		PO #: 4502041043																		
Email: richardg@kprginc.com		WO #:																		
Project Name: Will County CCR Event Desc: Quarterly GW Monitoring		Project #: 50011609		Total Number of Containers		Special Instructions/Note:														
Site: Illinois		SSOW#:																		
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A-Air)	D	D	N												
<del>MW-01</del>					Water															
MW-02					Water															
MW-03		6-8	1040		Water	X	X	X	X											
MW-04		6-8	1003		Water	X	X	X	X											
<del>MW-07</del>					Water															
<del>MW-08</del>					Water															
MW-13					Water															
<del>MW-14</del>					Water															
MW-15					Water															
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>														
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months														
Deliverable Requested I, II, III, IV Other (specify)						Special Instructions/QC Requirements														
Empty Kit Relinquished by:		Date		Time		Method of Shipment:														
Relinquished by: <i>Si Bl</i>		Date/Time: 6/9/21 1108		Company: <i>EA</i>		Received by: <i>P. Neal</i>		Date/Time: 6/9/21 1108		Company: <i>EY</i>										
Relinquished by: <i>P. Neal</i>		Date/Time: 6/9/21 1206		Company: <i>EA</i>		Received by: <i>Shirley Scott</i>		Date/Time: 6/9/21 1206		Company: <i>EA-GH</i>										
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:										
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		1.9 36qt.														





# Chain of Custody Record



Environment Testing  
 America



<b>Client Information (Sub Contract Lab)</b>		Sampler: Lat. PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-149413-1	
Client Contact: Earth City		E-Mail: Diana.Mockler@EurofinsTest.com		State of Origin: Illinois		Page: Page 1 of 1	
Shipping/Receiving: 13715 Rider Trail North,		Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-200373-1	
Address: 13715 Rider Trail North,		Due Date Requested: 6/28/2021		Analysis Requested		Preservation Codes:	
City: Earth City		TAT Requested (days):		Field Filtered Sample (Yes or No)		A - HCL	
State, Zip: MO, 63045		PO #:		Perform MS/MSD (Yes or No)		M - Hexane	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		903.0/PreSep_21 Standard Target List		N - None	
Email:		Project #: 50011609		904.0/PreSep_0 Standard Target List		O - AsNaO2	
Project Name: Will County CCR		SSOW#:		Ra226Ra228 GPC		P - Na2SO3	
Site: NRG Midwest Generation Will County		Sample Date		Sample Time		Q - Na2SO3	
Sample Identification - Client ID (Lab ID)		Sample Type (C=Comp, G=grab)		Matrix (W=Water, S=solid, O=wash/oli)		R - Na2SO3	
MW-01 (500-200373-1)		6/7/21		10:35 Central		S - H2SO4	
MW-02 (500-200373-2)		6/7/21		13:07 Central		T - TSP Dodecahydrate	
MW-07 (500-200373-3)		6/7/21		11:52 Central		U - Acetone	
MW-08 (500-200373-4)		6/7/21		13:54 Central		V - MCAA	
MW-13 (500-200373-5)		6/7/21		14:40 Central		W - pH 4-5	
MW-14 (500-200373-6)		6/7/21		12:35 Central		Z - other (specify)	
MW-15 (500-200373-7)		6/7/21		11:17 Central		Other:	
Duplicate (500-200373-8)		6/7/21		Central		Total Number of Containers	
Special Instructions/Note:		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3	
Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3	
Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3	
Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3	
Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3	
Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3	
Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;		3	

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

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

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

Relinquished by: <i>[Signature]</i>	Date: 6/19/21	Company: ETA STC
Relinquished by: <i>[Signature]</i>	Date: 6/19/21 11:18	Company: ETA STC
Relinquished by: <i>[Signature]</i>	Date: _____	Company: _____

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



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

**Chain of Custody Record**



**Client Information (Sub Contract Lab)**  
 Client Contact: **Mockler, Diana J** Lab PM: **Mockler, Diana J** Carrier Tracking No(s): **500-149441.1**  
 Shipping/Receiving: **Diana.Mockler@Eurofins.com** E-Mail: **Illinois** State of Origin: **Illinois** Page: **1 of 1**  
 Company: **TestAmerica Laboratories, Inc.** Accreditations Required (See note): **NELAP - Illinois** Job #: **500-200373-1**

Address: **13715 Rider Trail North,** Due Date Requested: **6/29/2021**  
 City: **MO, 63045** TAT Requested (days):  
 State, Zip: **MO, 63045** PO #: **314-298-8566(Tel) 314-298-8757(Fax)**  
 Phone: **314-298-8566(Tel) 314-298-8757(Fax)** WO #: **50011609**  
 Email: **Project #: 50011609**  
**Will County CCR** SOW#: **NRG Midwest Generation Will County**

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Sewage, Stormwater, Other)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	Special Instructions/Note:
					Preservation Code:	Retention Time:	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List		
MMW-03 (500-200373-9)	6/8/21	10:40	Central	Water	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume. Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.
MMW-04 (500-200373-10)	6/8/21	10:03	Central	Water	X	X	X	X	3	

**Analysis Requested**  
 Preservation Codes:  
 A - HCL M - Hexane  
 B - NaOH N - None  
 C - Zn Acetate O - AsHClO2  
 D - Nitric Acid P - Na2O4S  
 E - NaHSO4 Q - Na2SO3  
 F - MeOH R - Na2S2O3  
 G - Amchlor S - H2SO4  
 H - Ascorbic Acid T - TSP Dodecahydrate  
 I - Ice U - Acetone  
 J - DI Water V - MCAA  
 K - EDTA W - pH 4.5  
 L - EDTA Z - other (specify)  
 Other: \_\_\_\_\_

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

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2**  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_  
 Relinquished by: **FE** Date/Time: **7/1/21** **1600** Company: **ETA**  
 Relinquished by: **FE** Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact:  Yes  No Custody Seal No.: \_\_\_\_\_ Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-200373-2

**Login Number: 200373**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6,3.2,2.8,1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-200373-2

**Login Number: 200373**

**List Number: 2**

**Creator: Geiler, Autumn R**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 06/09/21 02:31 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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 <math><6\text{mm}</math> (1/4").	True	
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: 500-200373-2

**Login Number: 200373**

**List Number: 3**

**Creator: Geiler, Autumn R**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 06/10/21 01:25 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

Job ID: 500-200373-2

## Client Sample ID: MW-01

Date Collected: 06/07/21 10:35

Date Received: 06/08/21 11:50

Lab Sample ID: 500-200373-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513629	06/10/21 10:39	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 15:20	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513634	06/10/21 11:31	MJ	TAL SL
Total/NA	Analysis	904.0		1	516593	06/29/21 14:33	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519675	07/21/21 20:56	SCB	TAL SL

## Client Sample ID: MW-02

Date Collected: 06/07/21 13:07

Date Received: 06/08/21 11:50

Lab Sample ID: 500-200373-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513629	06/10/21 10:39	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 15:21	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513634	06/10/21 11:31	MJ	TAL SL
Total/NA	Analysis	904.0		1	516593	06/29/21 14:34	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519675	07/21/21 20:56	SCB	TAL SL

## Client Sample ID: MW-07

Date Collected: 06/07/21 11:52

Date Received: 06/08/21 11:50

Lab Sample ID: 500-200373-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513629	06/10/21 10:39	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 15:21	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513634	06/10/21 11:31	MJ	TAL SL
Total/NA	Analysis	904.0		1	516593	06/29/21 14:34	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519675	07/21/21 20:56	SCB	TAL SL

## Client Sample ID: MW-08

Date Collected: 06/07/21 13:54

Date Received: 06/08/21 11:50

Lab Sample ID: 500-200373-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513629	06/10/21 10:39	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 08:40	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513634	06/10/21 11:31	MJ	TAL SL
Total/NA	Analysis	904.0		1	516593	06/29/21 14:34	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519675	07/21/21 20:56	SCB	TAL SL

# Lab Chronicle

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

Job ID: 500-200373-2

## Client Sample ID: MW-13

Date Collected: 06/07/21 14:40

Date Received: 06/08/21 11:50

## Lab Sample ID: 500-200373-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513629	06/10/21 10:39	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 15:26	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513634	06/10/21 11:31	MJ	TAL SL
Total/NA	Analysis	904.0		1	516593	06/29/21 14:34	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519675	07/21/21 20:56	SCB	TAL SL

## Client Sample ID: MW-14

Date Collected: 06/07/21 12:35

Date Received: 06/08/21 11:50

## Lab Sample ID: 500-200373-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513629	06/10/21 10:39	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 15:30	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513634	06/10/21 11:31	MJ	TAL SL
Total/NA	Analysis	904.0		1	516593	06/29/21 14:34	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519675	07/21/21 20:56	SCB	TAL SL

## Client Sample ID: MW-15

Date Collected: 06/07/21 11:17

Date Received: 06/08/21 11:50

## Lab Sample ID: 500-200373-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513629	06/10/21 10:39	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 18:12	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513634	06/10/21 11:31	MJ	TAL SL
Total/NA	Analysis	904.0		1	516593	06/29/21 14:35	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519675	07/21/21 20:56	SCB	TAL SL

## Client Sample ID: Duplicate

Date Collected: 06/07/21 00:00

Date Received: 06/08/21 11:50

## Lab Sample ID: 500-200373-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513629	06/10/21 10:39	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 18:12	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513634	06/10/21 11:31	MJ	TAL SL
Total/NA	Analysis	904.0		1	516592	06/29/21 14:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519675	07/21/21 20:56	SCB	TAL SL

# Lab Chronicle

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

Job ID: 500-200373-2

**Client Sample ID: MW-03**

**Date Collected: 06/08/21 10:40**

**Date Received: 06/09/21 12:06**

**Lab Sample ID: 500-200373-9**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513775	06/11/21 09:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 11:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513780	06/11/21 09:49	MJ	TAL SL
Total/NA	Analysis	904.0		1	516496	06/29/21 10:49	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519748	07/22/21 12:13	SCB	TAL SL

**Client Sample ID: MW-04**

**Date Collected: 06/08/21 10:03**

**Date Received: 06/09/21 12:06**

**Lab Sample ID: 500-200373-10**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513775	06/11/21 09:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	518943	07/16/21 11:50	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513780	06/11/21 09:49	MJ	TAL SL
Total/NA	Analysis	904.0		1	516496	06/29/21 10:50	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519748	07/22/21 12:13	SCB	TAL SL

**Laboratory References:**

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

# Tracer/Carrier Summary

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

Job ID: 500-200373-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-200373-1	MW-01	96.6	
500-200373-1 DU	MW-01	93.1	
500-200373-2	MW-02	92.8	
500-200373-3	MW-07	94.4	
500-200373-4	MW-08	92.5	
500-200373-5	MW-13	81.0	
500-200373-6	MW-14	100	
500-200373-7	MW-15	91.9	
500-200373-8	Duplicate	81.9	
500-200373-9	MW-03	79.6	
500-200373-9 DU	MW-03	82.0	
500-200373-10	MW-04	86.8	
LCS 160-513629/1-A	Lab Control Sample	73.5	
LCS 160-513775/1-A	Lab Control Sample	84.4	
MB 160-513629/23-A	Method Blank	110	
MB 160-513775/17-A	Method Blank	81.1	

**Tracer/Carrier Legend**

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-200373-1	MW-01	96.6	83.4
500-200373-1 DU	MW-01	93.1	81.9
500-200373-2	MW-02	92.8	83.7
500-200373-3	MW-07	94.4	83.7
500-200373-4	MW-08	92.5	82.2
500-200373-5	MW-13	81.0	83.7
500-200373-6	MW-14	100	83.7
500-200373-7	MW-15	91.9	84.9
500-200373-8	Duplicate	81.9	84.1
500-200373-9	MW-03	79.6	84.5
500-200373-9 DU	MW-03	82.0	86.4
500-200373-10	MW-04	86.8	84.5
LCS 160-513634/1-A	Lab Control Sample	73.5	83.4
LCS 160-513780/1-A	Lab Control Sample	84.4	84.9
MB 160-513634/23-A	Method Blank	110	88.2
MB 160-513780/17-A	Method Blank	81.1	83.0

**Tracer/Carrier Legend**

Ba = Ba Carrier

Y = Y Carrier

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
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Laboratory Job ID: 500-201561-1  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:  
7/21/2021 4:43:44 PM

Diana Mockler, Project Manager I  
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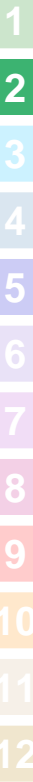
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*Results relate only to the items tested and the sample(s) as received by the laboratory.*





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# Case Narrative

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

Job ID: 500-201561-1

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**Job ID: 500-201561-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-201561-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/28/2021 7:45 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 0.9° C, 4.8° C and 5.6° C.

**Metals**

Method 6020A: The continuing calibration verification (CCV) associated with batch 500-608371 recovered above the upper control limit for Antimony. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method 6020A: The method blank for preparation batch 500-607857 and analytical batch 500-608431 contained Boron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

**General Chemistry**

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



# Method Summary

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

Job ID: 500-201561-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL 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:

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

# Sample Summary

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

Job ID: 500-201561-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-201561-1	MW-01	Water	06/25/21 15:45	06/28/21 19:45
500-201561-2	MW-07	Water	06/25/21 16:50	06/28/21 19:45
500-201561-3	MW-15	Water	06/25/21 16:25	06/28/21 19:45
500-201561-4	MW-02	Water	06/28/21 11:25	06/29/21 10:45
500-201561-5	MW-03	Water	06/28/21 13:16	06/29/21 10:45
500-201561-6	MW-04	Water	06/28/21 12:49	06/29/21 10:45
500-201561-7	MW-08	Water	06/28/21 11:56	06/29/21 10:45
500-201561-8	MW-13	Water	06/28/21 12:24	06/29/21 10:45
500-201561-9	MW-14	Water	06/28/21 10:54	06/29/21 10:45
500-201561-10	Dup	Water	06/28/21 00:00	06/29/21 10:45

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# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-201561-1**

Date Collected: 06/25/21 15:45

Matrix: Water

Date Received: 06/28/21 19:45

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.037		0.010		mg/L		07/06/21 08:39	07/06/21 21:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 14:40	1
Arsenic	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 14:40	1
Barium	0.097		0.0025		mg/L		07/06/21 08:39	07/07/21 14:40	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 14:40	1
Boron	2.6	B	0.50		mg/L		07/06/21 08:39	07/08/21 15:41	10
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 14:40	1
Calcium	200		0.20		mg/L		07/06/21 08:39	07/07/21 14:40	1
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 14:40	1
Cobalt	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 14:40	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 14:40	1
Molybdenum	0.014		0.0050		mg/L		07/06/21 08:39	07/07/21 14:40	1
Selenium	0.0042		0.0025		mg/L		07/06/21 08:39	07/07/21 14:40	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 14:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 09:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			06/30/21 08:33	1
Chloride	20		2.0		mg/L			07/21/21 14:02	1
Fluoride	0.59		0.10		mg/L			07/19/21 12:53	1
Sulfate	410		50		mg/L			07/21/21 12:58	10

# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-07**

**Lab Sample ID: 500-201561-2**

Date Collected: 06/25/21 16:50

Matrix: Water

Date Received: 06/28/21 19:45

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.032		0.010		mg/L		07/06/21 08:39	07/06/21 21:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 14:57	1
Arsenic	0.0024		0.0010		mg/L		07/06/21 08:39	07/07/21 14:57	1
Barium	0.12		0.0025		mg/L		07/06/21 08:39	07/07/21 14:57	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 14:57	1
Boron	6.0	B	1.0		mg/L		07/06/21 08:39	07/08/21 13:29	20
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 14:57	1
Calcium	290		4.0		mg/L		07/06/21 08:39	07/08/21 13:29	20
Chromium	0.034		0.0050		mg/L		07/06/21 08:39	07/07/21 14:57	1
Cobalt	0.0012		0.0010		mg/L		07/06/21 08:39	07/07/21 14:57	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 14:57	1
Molybdenum	0.051		0.0050		mg/L		07/06/21 08:39	07/07/21 14:57	1
Selenium	0.0039		0.0025		mg/L		07/06/21 08:39	07/07/21 14:57	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 14:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 09:41	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2300		10		mg/L			06/30/21 08:35	1
Chloride	250		10		mg/L			07/21/21 14:03	5
Fluoride	0.42		0.10		mg/L			07/19/21 12:56	1
Sulfate	850		100		mg/L			07/21/21 13:00	20

# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-201561-3**

Date Collected: 06/25/21 16:25

Matrix: Water

Date Received: 06/28/21 19:45

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		07/06/21 08:39	07/06/21 21:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 15:00	1
Arsenic	0.0030		0.0010		mg/L		07/06/21 08:39	07/07/21 15:00	1
Barium	0.10		0.0025		mg/L		07/06/21 08:39	07/07/21 15:00	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:00	1
Boron	3.4	B	0.50		mg/L		07/06/21 08:39	07/08/21 13:33	10
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:00	1
Calcium	170		0.20		mg/L		07/06/21 08:39	07/07/21 15:00	1
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 15:00	1
Cobalt	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:00	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:00	1
Molybdenum	0.036		0.0050		mg/L		07/06/21 08:39	07/07/21 15:00	1
Selenium	<0.0025		0.0025		mg/L		07/06/21 08:39	07/07/21 15:00	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 09:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			06/30/21 08:38	1
Chloride	110		10		mg/L			07/21/21 14:03	5
Fluoride	0.51		0.10		mg/L			07/19/21 12:59	1
Sulfate	550		100		mg/L			07/21/21 13:00	20

# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-02**

**Lab Sample ID: 500-201561-4**

Date Collected: 06/28/21 11:25

Matrix: Water

Date Received: 06/29/21 10:45

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.046		0.010		mg/L		07/06/21 08:39	07/06/21 21:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 15:04	1
Arsenic	0.012		0.0010		mg/L		07/06/21 08:39	07/07/21 15:04	1
Barium	0.059		0.0025		mg/L		07/06/21 08:39	07/07/21 15:04	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:04	1
Boron	5.3	B	1.0		mg/L		07/06/21 08:39	07/08/21 13:50	20
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:04	1
Calcium	95		0.20		mg/L		07/06/21 08:39	07/07/21 15:04	1
Chromium	0.0057		0.0050		mg/L		07/06/21 08:39	07/07/21 15:04	1
Cobalt	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:04	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:04	1
Molybdenum	0.075		0.0050		mg/L		07/06/21 08:39	07/07/21 15:04	1
Selenium	<0.0025		0.0025		mg/L		07/06/21 08:39	07/07/21 15:04	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 09:45	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			06/30/21 08:40	1
Chloride	23		2.0		mg/L			07/21/21 14:03	1
Fluoride	0.36		0.10		mg/L			07/19/21 13:02	1
Sulfate	500		100		mg/L			07/21/21 13:01	20



# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-201561-5**

Date Collected: 06/28/21 13:16

Matrix: Water

Date Received: 06/29/21 10:45

## Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.044		0.010		mg/L		07/06/21 08:39	07/06/21 22:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 15:14	1
Arsenic	0.0023		0.0010		mg/L		07/06/21 08:39	07/07/21 15:14	1
Barium	0.091		0.0025		mg/L		07/06/21 08:39	07/07/21 15:14	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:14	1
Boron	3.6	B	0.50		mg/L		07/06/21 08:39	07/08/21 13:53	10
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:14	1
Calcium	120		0.20		mg/L		07/06/21 08:39	07/07/21 15:14	1
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 15:14	1
Cobalt	0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:14	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:14	1
Molybdenum	0.022		0.0050		mg/L		07/06/21 08:39	07/07/21 15:14	1
Selenium	<0.0025		0.0025		mg/L		07/06/21 08:39	07/07/21 15:14	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 15:14	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 09:47	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	930		10		mg/L			06/30/21 08:43	1
Chloride	23		2.0		mg/L			07/21/21 14:03	1
Fluoride	0.32		0.10		mg/L			07/19/21 13:05	1
Sulfate	290		50		mg/L			07/21/21 13:01	10

# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-201561-6**

Date Collected: 06/28/21 12:49

Matrix: Water

Date Received: 06/29/21 10:45

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.025		0.010		mg/L		07/06/21 08:39	07/06/21 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 15:18	1
Arsenic	0.011		0.0010		mg/L		07/06/21 08:39	07/07/21 15:18	1
Barium	0.047		0.0025		mg/L		07/06/21 08:39	07/07/21 15:18	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:18	1
Boron	5.6	B	1.0		mg/L		07/06/21 08:39	07/08/21 13:57	20
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:18	1
Calcium	330		4.0		mg/L		07/06/21 08:39	07/08/21 13:57	20
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 15:18	1
Cobalt	0.0016		0.0010		mg/L		07/06/21 08:39	07/07/21 15:18	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:18	1
Molybdenum	0.027		0.0050		mg/L		07/06/21 08:39	07/07/21 15:18	1
Selenium	0.019		0.0025		mg/L		07/06/21 08:39	07/07/21 15:18	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 09:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2100		10		mg/L			06/30/21 08:45	1
Chloride	20		2.0		mg/L			07/21/21 14:04	1
Fluoride	0.35		0.10		mg/L			07/19/21 13:09	1
Sulfate	930		100		mg/L			07/21/21 13:05	20

# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-08**

**Lab Sample ID: 500-201561-7**

Date Collected: 06/28/21 11:56

Matrix: Water

Date Received: 06/29/21 10:45

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.019		0.010		mg/L		07/06/21 08:39	07/06/21 22:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 15:21	1
Arsenic	0.014		0.0010		mg/L		07/06/21 08:39	07/07/21 15:21	1
Barium	0.083		0.0025		mg/L		07/06/21 08:39	07/07/21 15:21	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:21	1
Boron	3.0	B	0.50		mg/L		07/06/21 08:39	07/08/21 14:00	10
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:21	1
Calcium	160		0.20		mg/L		07/06/21 08:39	07/07/21 15:21	1
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 15:21	1
Cobalt	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:21	1
Lead	0.0011		0.00050		mg/L		07/06/21 08:39	07/07/21 15:21	1
Molybdenum	0.066		0.0050		mg/L		07/06/21 08:39	07/07/21 15:21	1
Selenium	<0.0025		0.0025		mg/L		07/06/21 08:39	07/07/21 15:21	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 10:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			06/30/21 08:48	1
Chloride	190		20		mg/L			07/21/21 14:04	10
Fluoride	0.53		0.10		mg/L			07/19/21 13:12	1
Sulfate	480		100		mg/L			07/21/21 13:06	20

# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-201561-8**

Date Collected: 06/28/21 12:24

Matrix: Water

Date Received: 06/29/21 10:45

### Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.016		0.010		mg/L		07/06/21 08:39	07/06/21 22:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 15:25	1
Arsenic	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:25	1
Barium	0.082		0.0025		mg/L		07/06/21 08:39	07/07/21 15:25	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:25	1
Boron	0.68		0.10		mg/L		07/14/21 18:08	07/20/21 13:27	2
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:25	1
Calcium	110		0.20		mg/L		07/06/21 08:39	07/07/21 15:25	1
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 15:25	1
Cobalt	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:25	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:25	1
Molybdenum	0.018		0.0050		mg/L		07/06/21 08:39	07/07/21 15:25	1
Selenium	0.0072		0.0025		mg/L		07/06/21 08:39	07/07/21 15:25	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 15:25	1

### Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 10:29	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10		mg/L			06/30/21 08:51	1
Chloride	160		10		mg/L			07/21/21 14:05	5
Fluoride	0.37		0.10		mg/L			07/19/21 13:15	1
Sulfate	120		50		mg/L			07/21/21 13:06	10

# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-201561-9**

Date Collected: 06/28/21 10:54

Matrix: Water

Date Received: 06/29/21 10:45

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		07/06/21 08:39	07/06/21 22:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 15:28	1
Arsenic	0.0028		0.0010		mg/L		07/06/21 08:39	07/07/21 15:28	1
Barium	0.086		0.0025		mg/L		07/06/21 08:39	07/07/21 15:28	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:28	1
Boron	3.1	B	0.50		mg/L		07/06/21 08:39	07/08/21 14:07	10
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:28	1
Calcium	87		0.20		mg/L		07/06/21 08:39	07/07/21 15:28	1
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 15:28	1
Cobalt	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:28	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:28	1
Molybdenum	0.081		0.0050		mg/L		07/06/21 08:39	07/07/21 15:28	1
Selenium	<0.0025		0.0025		mg/L		07/06/21 08:39	07/07/21 15:28	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 15:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 10:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	990		10		mg/L			06/30/21 08:53	1
Chloride	120		10		mg/L			07/21/21 14:05	5
Fluoride	0.74		0.10		mg/L			07/19/21 13:17	1
Sulfate	400		100		mg/L			07/21/21 13:06	20

# Client Sample Results

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

Job ID: 500-201561-1

**Client Sample ID: Dup**

**Lab Sample ID: 500-201561-10**

Date Collected: 06/28/21 00:00

Matrix: Water

Date Received: 06/29/21 10:45

**Method: 6010C - Metals (ICP) - Total Recoverable**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.046		0.010		mg/L		07/06/21 08:39	07/06/21 22:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 15:32	1
Arsenic	0.011		0.0010		mg/L		07/06/21 08:39	07/07/21 15:32	1
Barium	0.059		0.0025		mg/L		07/06/21 08:39	07/07/21 15:32	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:32	1
Boron	5.5	B	1.0		mg/L		07/06/21 08:39	07/08/21 14:10	20
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:32	1
Calcium	93		0.20		mg/L		07/06/21 08:39	07/07/21 15:32	1
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 15:32	1
Cobalt	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 15:32	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 15:32	1
Molybdenum	0.075		0.0050		mg/L		07/06/21 08:39	07/07/21 15:32	1
Selenium	<0.0025		0.0025		mg/L		07/06/21 08:39	07/07/21 15:32	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 10:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/30/21 08:56	1
Chloride	12		10		mg/L			07/21/21 14:05	5
Fluoride	0.37		0.10		mg/L			07/19/21 13:20	1
Sulfate	500		100		mg/L			07/21/21 13:18	20

# Definitions/Glossary

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

Job ID: 500-201561-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.

### 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.
α	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

Job ID: 500-201561-1

## Metals

### Prep Batch: 607857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total Recoverable	Water	3005A	
500-201561-2	MW-07	Total Recoverable	Water	3005A	
500-201561-3	MW-15	Total Recoverable	Water	3005A	
500-201561-4	MW-02	Total Recoverable	Water	3005A	
500-201561-5	MW-03	Total Recoverable	Water	3005A	
500-201561-6	MW-04	Total Recoverable	Water	3005A	
500-201561-7	MW-08	Total Recoverable	Water	3005A	
500-201561-8	MW-13	Total Recoverable	Water	3005A	
500-201561-9	MW-14	Total Recoverable	Water	3005A	
500-201561-10	Dup	Total Recoverable	Water	3005A	
MB 500-607857/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-607857/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-201561-1 MS	MW-01	Total Recoverable	Water	3005A	
500-201561-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-201561-1 DU	MW-01	Total Recoverable	Water	3005A	

### Analysis Batch: 608011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total Recoverable	Water	6010C	607857
500-201561-2	MW-07	Total Recoverable	Water	6010C	607857
500-201561-3	MW-15	Total Recoverable	Water	6010C	607857
500-201561-4	MW-02	Total Recoverable	Water	6010C	607857
500-201561-5	MW-03	Total Recoverable	Water	6010C	607857
500-201561-6	MW-04	Total Recoverable	Water	6010C	607857
500-201561-7	MW-08	Total Recoverable	Water	6010C	607857
500-201561-8	MW-13	Total Recoverable	Water	6010C	607857
500-201561-9	MW-14	Total Recoverable	Water	6010C	607857
500-201561-10	Dup	Total Recoverable	Water	6010C	607857
MB 500-607857/1-A	Method Blank	Total Recoverable	Water	6010C	607857
LCS 500-607857/2-A	Lab Control Sample	Total Recoverable	Water	6010C	607857
500-201561-1 MS	MW-01	Total Recoverable	Water	6010C	607857
500-201561-1 MSD	MW-01	Total Recoverable	Water	6010C	607857
500-201561-1 DU	MW-01	Total Recoverable	Water	6010C	607857

### Analysis Batch: 608371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total Recoverable	Water	6020A	607857
500-201561-2	MW-07	Total Recoverable	Water	6020A	607857
500-201561-3	MW-15	Total Recoverable	Water	6020A	607857
500-201561-4	MW-02	Total Recoverable	Water	6020A	607857
500-201561-5	MW-03	Total Recoverable	Water	6020A	607857
500-201561-6	MW-04	Total Recoverable	Water	6020A	607857
500-201561-7	MW-08	Total Recoverable	Water	6020A	607857
500-201561-8	MW-13	Total Recoverable	Water	6020A	607857
500-201561-9	MW-14	Total Recoverable	Water	6020A	607857
500-201561-10	Dup	Total Recoverable	Water	6020A	607857
MB 500-607857/1-A	Method Blank	Total Recoverable	Water	6020A	607857
LCS 500-607857/2-A	Lab Control Sample	Total Recoverable	Water	6020A	607857
500-201561-1 MS	MW-01	Total Recoverable	Water	6020A	607857
500-201561-1 MSD	MW-01	Total Recoverable	Water	6020A	607857
500-201561-1 DU	MW-01	Total Recoverable	Water	6020A	607857

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# QC Association Summary

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

Job ID: 500-201561-1

## Metals

### Prep Batch: 608413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total/NA	Water	7470A	
500-201561-2	MW-07	Total/NA	Water	7470A	
500-201561-3	MW-15	Total/NA	Water	7470A	
500-201561-4	MW-02	Total/NA	Water	7470A	
500-201561-5	MW-03	Total/NA	Water	7470A	
500-201561-6	MW-04	Total/NA	Water	7470A	
500-201561-7	MW-08	Total/NA	Water	7470A	
500-201561-8	MW-13	Total/NA	Water	7470A	
500-201561-9	MW-14	Total/NA	Water	7470A	
500-201561-10	Dup	Total/NA	Water	7470A	
MB 500-608413/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-608413/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-201561-6 MS	MW-04	Total/NA	Water	7470A	
500-201561-6 MSD	MW-04	Total/NA	Water	7470A	
500-201561-6 DU	MW-04	Total/NA	Water	7470A	

### Analysis Batch: 608431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-2	MW-07	Total Recoverable	Water	6020A	607857
500-201561-3	MW-15	Total Recoverable	Water	6020A	607857
500-201561-4	MW-02	Total Recoverable	Water	6020A	607857
500-201561-5	MW-03	Total Recoverable	Water	6020A	607857
500-201561-6	MW-04	Total Recoverable	Water	6020A	607857
500-201561-7	MW-08	Total Recoverable	Water	6020A	607857
500-201561-9	MW-14	Total Recoverable	Water	6020A	607857
500-201561-10	Dup	Total Recoverable	Water	6020A	607857
MB 500-607857/1-A	Method Blank	Total Recoverable	Water	6020A	607857
LCS 500-607857/2-A	Lab Control Sample	Total Recoverable	Water	6020A	607857

### Analysis Batch: 608443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total Recoverable	Water	6020A	607857
500-201561-1 MS	MW-01	Total Recoverable	Water	6020A	607857
500-201561-1 MSD	MW-01	Total Recoverable	Water	6020A	607857
500-201561-1 DU	MW-01	Total Recoverable	Water	6020A	607857

### Analysis Batch: 608612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total/NA	Water	7470A	608413
500-201561-2	MW-07	Total/NA	Water	7470A	608413
500-201561-3	MW-15	Total/NA	Water	7470A	608413
500-201561-4	MW-02	Total/NA	Water	7470A	608413
500-201561-5	MW-03	Total/NA	Water	7470A	608413
500-201561-6	MW-04	Total/NA	Water	7470A	608413
500-201561-7	MW-08	Total/NA	Water	7470A	608413
500-201561-8	MW-13	Total/NA	Water	7470A	608413
500-201561-9	MW-14	Total/NA	Water	7470A	608413
500-201561-10	Dup	Total/NA	Water	7470A	608413
MB 500-608413/12-A	Method Blank	Total/NA	Water	7470A	608413
LCS 500-608413/13-A	Lab Control Sample	Total/NA	Water	7470A	608413
500-201561-6 MS	MW-04	Total/NA	Water	7470A	608413

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# QC Association Summary

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

Job ID: 500-201561-1

## Metals (Continued)

### Analysis Batch: 608612 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-6 MSD	MW-04	Total/NA	Water	7470A	608413
500-201561-6 DU	MW-04	Total/NA	Water	7470A	608413

### Prep Batch: 609410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-8	MW-13	Total Recoverable	Water	3005A	
MB 500-609410/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-609410/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 610257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-8	MW-13	Total Recoverable	Water	6020A	609410
MB 500-609410/1-A	Method Blank	Total Recoverable	Water	6020A	609410
LCS 500-609410/2-A	Lab Control Sample	Total Recoverable	Water	6020A	609410

## General Chemistry

### Analysis Batch: 606953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total/NA	Water	SM 2540C	
500-201561-2	MW-07	Total/NA	Water	SM 2540C	
500-201561-3	MW-15	Total/NA	Water	SM 2540C	
500-201561-4	MW-02	Total/NA	Water	SM 2540C	
500-201561-5	MW-03	Total/NA	Water	SM 2540C	
500-201561-6	MW-04	Total/NA	Water	SM 2540C	
500-201561-7	MW-08	Total/NA	Water	SM 2540C	
500-201561-8	MW-13	Total/NA	Water	SM 2540C	
500-201561-9	MW-14	Total/NA	Water	SM 2540C	
500-201561-10	Dup	Total/NA	Water	SM 2540C	
MB 500-606953/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-606953/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 610037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total/NA	Water	SM 4500 F C	
500-201561-2	MW-07	Total/NA	Water	SM 4500 F C	
500-201561-3	MW-15	Total/NA	Water	SM 4500 F C	
500-201561-4	MW-02	Total/NA	Water	SM 4500 F C	
500-201561-5	MW-03	Total/NA	Water	SM 4500 F C	
500-201561-6	MW-04	Total/NA	Water	SM 4500 F C	
500-201561-7	MW-08	Total/NA	Water	SM 4500 F C	
500-201561-8	MW-13	Total/NA	Water	SM 4500 F C	
500-201561-9	MW-14	Total/NA	Water	SM 4500 F C	
500-201561-10	Dup	Total/NA	Water	SM 4500 F C	
MB 500-610037/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-610037/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 610467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-201561-2	MW-07	Total/NA	Water	SM 4500 SO4 E	

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# QC Association Summary

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

Job ID: 500-201561-1

## General Chemistry (Continued)

### Analysis Batch: 610467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-3	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-201561-4	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-201561-5	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-201561-6	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-201561-7	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-201561-8	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-201561-9	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-201561-10	Dup	Total/NA	Water	SM 4500 SO4 E	
MB 500-610467/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-610467/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-201561-1 MS	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-201561-1 MSD	MW-01	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 610468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-201561-2	MW-07	Total/NA	Water	SM 4500 Cl- E	
500-201561-3	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-201561-4	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-201561-5	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-201561-6	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-201561-7	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-201561-8	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-201561-9	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-201561-10	Dup	Total/NA	Water	SM 4500 Cl- E	
MB 500-610468/43	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-610468/44	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-201561-1 MS	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-201561-1 MSD	MW-01	Total/NA	Water	SM 4500 Cl- E	

# QC Sample Results

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

Job ID: 500-201561-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-607857/1-A**  
**Matrix: Water**  
**Analysis Batch: 608011**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/06/21 08:39	07/06/21 21:18	1

**Lab Sample ID: LCS 500-607857/2-A**  
**Matrix: Water**  
**Analysis Batch: 608011**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.527		mg/L		105	80 - 120

**Lab Sample ID: 500-201561-1 MS**  
**Matrix: Water**  
**Analysis Batch: 608011**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.037		0.500	0.573		mg/L		107	75 - 125

**Lab Sample ID: 500-201561-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 608011**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	0.037		0.500	0.574		mg/L		107	75 - 125	0	20

**Lab Sample ID: 500-201561-1 DU**  
**Matrix: Water**  
**Analysis Batch: 608011**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.037		0.0392		mg/L		5	20

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

**Lab Sample ID: MB 500-607857/1-A**  
**Matrix: Water**  
**Analysis Batch: 608371**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^+	0.0030		mg/L		07/06/21 08:39	07/07/21 14:33	1
Arsenic	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 14:33	1
Barium	<0.0025		0.0025		mg/L		07/06/21 08:39	07/07/21 14:33	1
Beryllium	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 14:33	1
Cadmium	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 14:33	1
Calcium	<0.20		0.20		mg/L		07/06/21 08:39	07/07/21 14:33	1
Chromium	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 14:33	1
Cobalt	<0.0010		0.0010		mg/L		07/06/21 08:39	07/07/21 14:33	1
Lead	<0.00050		0.00050		mg/L		07/06/21 08:39	07/07/21 14:33	1
Molybdenum	<0.0050		0.0050		mg/L		07/06/21 08:39	07/07/21 14:33	1
Selenium	<0.0025		0.0025		mg/L		07/06/21 08:39	07/07/21 14:33	1
Thallium	<0.0020		0.0020		mg/L		07/06/21 08:39	07/07/21 14:33	1

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# QC Sample Results

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

Job ID: 500-201561-1

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

**Lab Sample ID: MB 500-607857/1-A**  
**Matrix: Water**  
**Analysis Batch: 608431**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0894		0.050		mg/L		07/06/21 08:39	07/08/21 13:08	1

**Lab Sample ID: LCS 500-607857/2-A**  
**Matrix: Water**  
**Analysis Batch: 608371**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	2.00	2.03		mg/L		101	80 - 120
Beryllium	0.0500	0.0506		mg/L		101	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.213		mg/L		106	80 - 120
Cobalt	0.500	0.530		mg/L		106	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Molybdenum	1.00	1.04		mg/L		104	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

**Lab Sample ID: LCS 500-607857/2-A**  
**Matrix: Water**  
**Analysis Batch: 608431**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.11		mg/L		111	80 - 120

**Lab Sample ID: 500-201561-1 MS**  
**Matrix: Water**  
**Analysis Batch: 608371**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.0010		0.100	0.105		mg/L		104	75 - 125
Barium	0.097		2.00	2.15		mg/L		102	75 - 125
Beryllium	<0.0010		0.0500	0.0497		mg/L		99	75 - 125
Cadmium	<0.00050		0.0500	0.0484		mg/L		96	75 - 125
Calcium	200		10.0	207	4	mg/L		90	75 - 125
Chromium	<0.0050		0.200	0.204		mg/L		102	75 - 125
Cobalt	<0.0010		0.500	0.500		mg/L		100	75 - 125
Lead	<0.00050		0.100	0.106		mg/L		106	75 - 125
Molybdenum	0.014		1.00	1.07		mg/L		105	75 - 125
Selenium	0.0042		0.100	0.110		mg/L		106	75 - 125
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125

**Lab Sample ID: 500-201561-1 MS**  
**Matrix: Water**  
**Analysis Batch: 608443**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	2.6	B	1.00	3.65		mg/L		105	75 - 125

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# QC Sample Results

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

Job ID: 500-201561-1

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

**Lab Sample ID: 500-201561-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 608371**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result	Qualifier				Limits		
Arsenic	<0.0010		0.100	0.105		mg/L		104	75 - 125	0	20
Barium	0.097		2.00	2.10		mg/L		100	75 - 125	2	20
Beryllium	<0.0010		0.0500	0.0499		mg/L		100	75 - 125	0	20
Cadmium	<0.00050		0.0500	0.0485		mg/L		96	75 - 125	0	20
Calcium	200		10.0	202	4	mg/L		43	75 - 125	2	20
Chromium	<0.0050		0.200	0.198		mg/L		99	75 - 125	3	20
Cobalt	<0.0010		0.500	0.484		mg/L		97	75 - 125	3	20
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125	2	20
Molybdenum	0.014		1.00	1.05		mg/L		104	75 - 125	1	20
Selenium	0.0042		0.100	0.111		mg/L		106	75 - 125	0	20
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125	3	20

**Lab Sample ID: 500-201561-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 608443**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result	Qualifier				Limits		
Boron	2.6	B	1.00	3.65		mg/L		105	75 - 125	0	20

**Lab Sample ID: 500-201561-1 DU**  
**Matrix: Water**  
**Analysis Batch: 608371**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample	Sample Qualifier	DU Result	DU	Unit	D	RPD	Limit
	Result			Qualifier				
Antimony	<0.0030	^+	<0.0030	^+	mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.097		0.0972		mg/L		0.3	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	200		196		mg/L		1	20
Chromium	<0.0050		0.00687		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.014		0.0156		mg/L		13	20
Selenium	0.0042		0.00444		mg/L		6	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: 500-201561-1 DU**  
**Matrix: Water**  
**Analysis Batch: 608443**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607857**

Analyte	Sample	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
	Result		Qualifier					
Boron	2.6	B	2.63		mg/L		1	20

# QC Sample Results

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

Job ID: 500-201561-1

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

**Lab Sample ID: MB 500-609410/1-A**  
**Matrix: Water**  
**Analysis Batch: 610257**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 609410**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		07/14/21 18:08	07/20/21 13:14	1
Arsenic	<0.0010		0.0010		mg/L		07/14/21 18:08	07/20/21 13:14	1
Barium	<0.0025		0.0025		mg/L		07/14/21 18:08	07/20/21 13:14	1
Beryllium	<0.0010		0.0010		mg/L		07/14/21 18:08	07/20/21 13:14	1
Boron	<0.050		0.050		mg/L		07/14/21 18:08	07/20/21 13:14	1
Cadmium	<0.00050		0.00050		mg/L		07/14/21 18:08	07/20/21 13:14	1
Chromium	<0.0050		0.0050		mg/L		07/14/21 18:08	07/20/21 13:14	1
Cobalt	<0.0010		0.0010		mg/L		07/14/21 18:08	07/20/21 13:14	1
Lead	<0.00050		0.00050		mg/L		07/14/21 18:08	07/20/21 13:14	1
Selenium	<0.0025		0.0025		mg/L		07/14/21 18:08	07/20/21 13:14	1
Thallium	<0.0020		0.0020		mg/L		07/14/21 18:08	07/20/21 13:14	1

**Lab Sample ID: LCS 500-609410/2-A**  
**Matrix: Water**  
**Analysis Batch: 610257**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 609410**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.104		mg/L		104	80 - 120
Barium	2.00	2.12		mg/L		106	80 - 120
Beryllium	0.0500	0.0544		mg/L		109	80 - 120
Boron	1.00	0.954		mg/L		95	80 - 120
Cadmium	0.0500	0.0529		mg/L		106	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.544		mg/L		109	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-608413/12-A**  
**Matrix: Water**  
**Analysis Batch: 608612**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 608413**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		07/08/21 13:25	07/09/21 09:34	1

**Lab Sample ID: LCS 500-608413/13-A**  
**Matrix: Water**  
**Analysis Batch: 608612**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 608413**

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

**Lab Sample ID: 500-201561-6 MS**  
**Matrix: Water**  
**Analysis Batch: 608612**

**Client Sample ID: MW-04**  
**Prep Type: Total/NA**  
**Prep Batch: 608413**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.00104		mg/L		104	75 - 125

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# QC Sample Results

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

Job ID: 500-201561-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: 500-201561-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 608612**

**Client Sample ID: MW-04**  
**Prep Type: Total/NA**  
**Prep Batch: 608413**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	3	20

**Lab Sample ID: 500-201561-6 DU**  
**Matrix: Water**  
**Analysis Batch: 608612**

**Client Sample ID: MW-04**  
**Prep Type: Total/NA**  
**Prep Batch: 608413**

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

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

**Lab Sample ID: MB 500-606953/1**  
**Matrix: Water**  
**Analysis Batch: 606953**

**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			06/30/21 08:02	1

**Lab Sample ID: LCS 500-606953/2**  
**Matrix: Water**  
**Analysis Batch: 606953**

**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	252		mg/L		101	80 - 120

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

**Lab Sample ID: MB 500-610468/43**  
**Matrix: Water**  
**Analysis Batch: 610468**

**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			07/21/21 14:02	1

**Lab Sample ID: LCS 500-610468/44**  
**Matrix: Water**  
**Analysis Batch: 610468**

**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	21.0		mg/L		105	85 - 115

**Lab Sample ID: 500-201561-1 MS**  
**Matrix: Water**  
**Analysis Batch: 610468**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20		20.0	38.9		mg/L		96	75 - 125



# QC Sample Results

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

Job ID: 500-201561-1

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

Lab Sample ID: 500-201561-1 MSD  
Matrix: Water  
Analysis Batch: 610468

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	20		20.0	39.0		mg/L		96	75 - 125	0	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-610037/3  
Matrix: Water  
Analysis Batch: 610037

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			07/19/21 12:08	1

Lab Sample ID: LCS 500-610037/4  
Matrix: Water  
Analysis Batch: 610037

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	80 - 120

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

Lab Sample ID: MB 500-610467/15  
Matrix: Water  
Analysis Batch: 610467

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			07/21/21 12:57	1

Lab Sample ID: LCS 500-610467/16  
Matrix: Water  
Analysis Batch: 610467

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	20.4		mg/L		102	80 - 120

Lab Sample ID: 500-201561-1 MS  
Matrix: Water  
Analysis Batch: 610467

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	410		20.0	405	4	mg/L		-22	75 - 125

Lab Sample ID: 500-201561-1 MSD  
Matrix: Water  
Analysis Batch: 610467

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	410		20.0	410	4	mg/L		6	75 - 125	1	20

**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**



**Client Information**  
 Client Contact: Richard Gnat  
 Company: KPRG and Associates Inc.  
 Address: 14865 West Lisbon Road Suite 1A  
 City: Brookfield  
 State Zip: WI 53005  
 Phone: 500-201561 COC  
 Email: richardg@kprginc.com  
 Project Name: Will County CCR Event Desc Quarterly GW Monitoring  
 Site: Illinois

Sampler: E. Bulsen  
 Phone: (708) 278 1001  
 Lab PM: Diana J  
 Mocker: Diana Mocker@Eurofinset.com  
 Carrier Tracking No(s): 500-92481-41204 1

Due Date Requested: 10/28/21  
 TAT Requested (days): 10/28  
 Compliance Project:  Yes  No  
 PO #: 4502041043  
 WO #: 500-201561  
 Project #: 50011609  
 PWSID: SSCOW#

State of Origin: Illinois  
 Page: 1 of 1

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Sewer, Air)	Field Filtered Sample (Yes or No)			Analysis Requested	Total Number of Containers	Special Instructions/Note
					Perform MS/MSD (Yes or No)	D	D			
MMW-01	6/25	1945	Water	Water	X	X	X	903.0, 904.0		Am needed 6/28/21 6/28/21 Am
MMW-02	6/28	1125	Water	Water	X	X	X	6010C, 6020A, 7470A		
MMW-03	6/28	1310	Water	Water	X	X	X	2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E		
MMW-04	6/28	1249	Water	Water	X	X	X			
MMW-07	6/25	1450	Water	Water	X	X	X			Am needed 6/28/21
MMW-08	6/28	1156	Water	Water	X	X	X			
MMW-13	6/28	1224	Water	Water	X	X	X			
MMW-14	6/28	1054	Water	Water	X	X	X			
MMW-15	6/25	1625	Water	Water	X	X	X			Am needed 6/28/21
Dyp	6/28	—	Water	Water	X	X	X			Am needed 6/28/21

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

Deliverable Requested:  I  II  III  IV  Other (specify)

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

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_

Relinquished by: ckh Date/Time: 6/18/21 / 1045 Company: ERK

Relinquished by: Richard Date/Time: 6/24/21 / 1045 Company: ERK

Custody Seals Intact:  Yes  No Custody Seal No: 485 5.6

Received by: Richard Date/Time: 6/29/21 / 0905 Company: ERK

Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ / \_\_\_\_\_ Company: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

**Chain of Custody Record**



<b>Client Information</b>		Sampler	Lab PM	Carrier Tracking No(s)	COC No	
Client Contact Richard Gnat		Phone	Mockler Diana J	State of Origin	500-92124-41061 1	
Company KPRG and Associates Inc		PWSID	E-Mail Diana Mockler@Eurofinset.com		Page Page 1 of 1	
Address 14665 West Lisbon Road Suite 1A		Due Date Requested	<b>Analysis Requested</b>		Job # 500-201561	
City Brookfield		TAT Requested (days)	Field Filtered Sample (Yes or No) <input type="checkbox"/> Perform MS/MSD (Yes or No) <input type="checkbox"/> 903 0 904.0, Radium Combined 6010C Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4500FC - Fluoride SM4500CIE Chloride, SM4500SO4E - Sulfate		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)	
State Zip WI 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No				Total Number of containers _____
Phone 500-201561 COC		PO # 4502041043				
Email richardg@kprginc.com		WO #				
Project Name Will County CCR Event Desc Quarterly GW Monitoring		Project # 50011609	Special Instructions/Note		Other: _____	
Site Illinois		SSOW#	Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air) Preservation Code			
MW-01		6/25 1545	Water	N	X X X X	*Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl
MW-02		-	Water			
MW-03		-	Water			
MW-04		-	Water			
MW-07		6/25 1650	Water	N	X X X X	
MW-08		-	Water			
MW-13		-	Water			
MW-14		-	Water			
MW-15		6/25 1625	Water	N	X X X X	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)			Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date	Time	Method of Shipment		
Relinquished by <i>Er. Blay</i>		Date/Time 6/25 8:00 AM	Company KPRG	Received by <i>Paul Farmer</i> Date/Time 6/28/21 0937 Company ETA		
Relinquished by <i>Paul Farmer</i>		Date/Time 6/28/21 1945	Company	Received by <i>Chin...</i> Date/Time 6/29/21 0700 Company ETA-ONE		
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 0.9		

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-201561-1

**Login Number: 201561**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

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	0.9,4.8,5.6
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.	False	
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

Job ID: 500-201561-1

**Client Sample ID: MW-01**  
**Date Collected: 06/25/21 15:45**  
**Date Received: 06/28/21 19:45**

**Lab Sample ID: 500-201561-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 21:25	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 14:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	608443	07/08/21 15:41	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 09:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	610468	07/21/21 14:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 12:53	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	610467	07/21/21 12:58	MS	TAL CHI

**Client Sample ID: MW-07**  
**Date Collected: 06/25/21 16:50**  
**Date Received: 06/28/21 19:45**

**Lab Sample ID: 500-201561-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 21:42	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 14:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	608431	07/08/21 13:29	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 09:41	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	610468	07/21/21 14:03	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 12:56	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	610467	07/21/21 13:00	MS	TAL CHI

**Client Sample ID: MW-15**  
**Date Collected: 06/25/21 16:25**  
**Date Received: 06/28/21 19:45**

**Lab Sample ID: 500-201561-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 21:46	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 15:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	608431	07/08/21 13:33	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 09:43	MJG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-201561-1

## Client Sample ID: MW-15

Date Collected: 06/25/21 16:25

Date Received: 06/28/21 19:45

## Lab Sample ID: 500-201561-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	610468	07/21/21 14:03	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 12:59	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	610467	07/21/21 13:00	MS	TAL CHI

## Client Sample ID: MW-02

Date Collected: 06/28/21 11:25

Date Received: 06/29/21 10:45

## Lab Sample ID: 500-201561-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 21:50	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 15:04	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	608431	07/08/21 13:50	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 09:45	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:40	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	610468	07/21/21 14:03	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 13:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	610467	07/21/21 13:01	MS	TAL CHI

## Client Sample ID: MW-03

Date Collected: 06/28/21 13:16

Date Received: 06/29/21 10:45

## Lab Sample ID: 500-201561-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 22:00	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 15:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	608431	07/08/21 13:53	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 09:47	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	610468	07/21/21 14:03	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 13:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	610467	07/21/21 13:01	MS	TAL CHI

# Lab Chronicle

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

Job ID: 500-201561-1

**Client Sample ID: MW-04**  
**Date Collected: 06/28/21 12:49**  
**Date Received: 06/29/21 10:45**

**Lab Sample ID: 500-201561-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 22:04	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 15:18	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	608431	07/08/21 13:57	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 09:49	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:45	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	610468	07/21/21 14:04	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 13:09	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	610467	07/21/21 13:05	MS	TAL CHI

**Client Sample ID: MW-08**  
**Date Collected: 06/28/21 11:56**  
**Date Received: 06/29/21 10:45**

**Lab Sample ID: 500-201561-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 22:07	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 15:21	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	608431	07/08/21 14:00	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 10:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	610468	07/21/21 14:04	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 13:12	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	610467	07/21/21 13:06	MS	TAL CHI

**Client Sample ID: MW-13**  
**Date Collected: 06/28/21 12:24**  
**Date Received: 06/29/21 10:45**

**Lab Sample ID: 500-201561-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 22:11	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 15:25	FXG	TAL CHI
Total Recoverable	Prep	3005A			609410	07/14/21 18:08	LMN	TAL CHI
Total Recoverable	Analysis	6020A		2	610257	07/20/21 13:27	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 10:29	MJG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-201561-1

## Client Sample ID: MW-13

Date Collected: 06/28/21 12:24

Date Received: 06/29/21 10:45

## Lab Sample ID: 500-201561-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:51	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	610468	07/21/21 14:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 13:15	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	610467	07/21/21 13:06	MS	TAL CHI

## Client Sample ID: MW-14

Date Collected: 06/28/21 10:54

Date Received: 06/29/21 10:45

## Lab Sample ID: 500-201561-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 22:14	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 15:28	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	608431	07/08/21 14:07	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 10:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:53	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	610468	07/21/21 14:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 13:17	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	610467	07/21/21 13:06	MS	TAL CHI

## Client Sample ID: Dup

Date Collected: 06/28/21 00:00

Date Received: 06/29/21 10:45

## Lab Sample ID: 500-201561-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	608011	07/06/21 22:18	EEN	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608371	07/07/21 15:32	FXG	TAL CHI
Total Recoverable	Prep	3005A			607857	07/06/21 08:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	608431	07/08/21 14:10	FXG	TAL CHI
Total/NA	Prep	7470A			608413	07/08/21 13:25	MJG	TAL CHI
Total/NA	Analysis	7470A		1	608612	07/09/21 10:33	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:56	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	610468	07/21/21 14:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	610037	07/19/21 13:20	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	610467	07/21/21 13:18	MS	TAL CHI

### Laboratory References:

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

Eurofins TestAmerica, Chicago



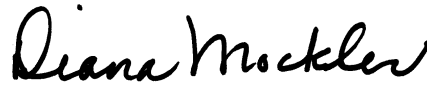
## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
University Park, IL 60484  
Tel: (708)534-5200

Laboratory Job ID: 500-201561-2  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:  
7/26/2021 8:15:45 AM

Diana Mockler, Project Manager I  
(219)252-7570  
[Diana.Mockler@Eurofinset.com](mailto:Diana.Mockler@Eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



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# Case Narrative

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

Job ID: 500-201561-2

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## Job ID: 500-201561-2

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### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

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#### Job Narrative 500-201561-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/28/2021 7:45 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 0.9° C, 4.8° C and 5.6° C.

#### RAD

Method 903.0: Radium-226 Batch 516828

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-01 (500-201561-1), MW-07 (500-201561-2), MW-15 (500-201561-3), MW-02 (500-201561-4), MW-03 (500-201561-5), MW-04 (500-201561-6), MW-08 (500-201561-7), MW-13 (500-201561-8), MW-14 (500-201561-9), Dup (500-201561-10), (LCS 160-516828/1-A), (MB 160-516828/23-A), (500-201618-D-6-A) and (500-201618-E-6-B DU)

Method 904.0: Radium-228 Batch 516888

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-01 (500-201561-1), MW-07 (500-201561-2), MW-15 (500-201561-3), MW-02 (500-201561-4), MW-03 (500-201561-5), MW-04 (500-201561-6), MW-08 (500-201561-7), MW-13 (500-201561-8), MW-14 (500-201561-9), Dup (500-201561-10), (LCS 160-516888/1-A), (MB 160-516888/23-A), (500-201618-D-6-B) and (500-201618-E-6-C DU)

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

Job ID: 500-201561-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

TAL SL = Eurofins TestAmerica, 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

Job ID: 500-201561-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-201561-1	MW-01	Water	06/25/21 15:45	06/28/21 19:45
500-201561-2	MW-07	Water	06/25/21 16:50	06/28/21 19:45
500-201561-3	MW-15	Water	06/25/21 16:25	06/28/21 19:45
500-201561-4	MW-02	Water	06/28/21 11:25	06/29/21 10:45
500-201561-5	MW-03	Water	06/28/21 13:16	06/29/21 10:45
500-201561-6	MW-04	Water	06/28/21 12:49	06/29/21 10:45
500-201561-7	MW-08	Water	06/28/21 11:56	06/29/21 10:45
500-201561-8	MW-13	Water	06/28/21 12:24	06/29/21 10:45
500-201561-9	MW-14	Water	06/28/21 10:54	06/29/21 10:45
500-201561-10	Dup	Water	06/28/21 00:00	06/29/21 10:45

- 1
- 2
- 3
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- 9
- 10
- 11
- 12
- 13

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-01**

**Lab Sample ID: 500-201561-1**

Date Collected: 06/25/21 15:45

Matrix: Water

Date Received: 06/28/21 19:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0914	U	0.0838	0.0843	1.00	0.129	pCi/L	07/01/21 10:59	07/23/21 06:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		40 - 110					07/01/21 10:59	07/23/21 06:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.580		0.317	0.322	1.00	0.475	pCi/L	07/01/21 11:48	07/14/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		40 - 110					07/01/21 11:48	07/14/21 14:06	1
Y Carrier	86.0		40 - 110					07/01/21 11:48	07/14/21 14:06	1

**Method: 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	0.672		0.328	0.333	5.00	0.475	pCi/L		07/25/21 11:16	1

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-07**

**Lab Sample ID: 500-201561-2**

Date Collected: 06/25/21 16:50

Matrix: Water

Date Received: 06/28/21 19:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.403		0.133	0.138	1.00	0.131	pCi/L	07/01/21 10:59	07/23/21 06:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					07/01/21 10:59	07/23/21 06:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.291	U	0.296	0.297	1.00	0.482	pCi/L	07/01/21 11:48	07/14/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					07/01/21 11:48	07/14/21 14:06	1
Y Carrier	89.3		40 - 110					07/01/21 11:48	07/14/21 14:06	1

**Method: 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	0.694		0.325	0.327	5.00	0.482	pCi/L		07/25/21 11:16	1

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-15**

**Lab Sample ID: 500-201561-3**

Date Collected: 06/25/21 16:25

Matrix: Water

Date Received: 06/28/21 19:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.282		0.120	0.122	1.00	0.134	pCi/L	07/01/21 10:59	07/23/21 06:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.0		40 - 110					07/01/21 10:59	07/23/21 06:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.251	U	0.290	0.291	1.00	0.477	pCi/L	07/01/21 11:48	07/14/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.0		40 - 110					07/01/21 11:48	07/14/21 14:06	1
Y Carrier	89.9		40 - 110					07/01/21 11:48	07/14/21 14:06	1

**Method: 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	0.533		0.314	0.316	5.00	0.477	pCi/L		07/25/21 11:16	1



# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-02**  
Date Collected: 06/28/21 11:25  
Date Received: 06/29/21 10:45

**Lab Sample ID: 500-201561-4**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.358</b>		0.114	0.119	1.00	0.110	pCi/L	07/01/21 10:59	07/23/21 06:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					07/01/21 10:59	07/23/21 06:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.442</b>		0.232	0.235	1.00	0.341	pCi/L	07/01/21 11:48	07/14/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					07/01/21 11:48	07/14/21 14:06	1
Y Carrier	92.0		40 - 110					07/01/21 11:48	07/14/21 14:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.800</b>		0.258	0.263	5.00	0.341	pCi/L		07/25/21 11:16	1

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-03**  
Date Collected: 06/28/21 13:16  
Date Received: 06/29/21 10:45

**Lab Sample ID: 500-201561-5**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.431</b>		0.123	0.129	1.00	0.116	pCi/L	07/01/21 10:59	07/23/21 06:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					07/01/21 10:59	07/23/21 06:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.597</b>		0.256	0.262	1.00	0.364	pCi/L	07/01/21 11:48	07/14/21 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					07/01/21 11:48	07/14/21 14:06	1
Y Carrier	90.2		40 - 110					07/01/21 11:48	07/14/21 14:06	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.03</b>		0.284	0.292	5.00	0.364	pCi/L		07/25/21 11:16	1

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-04**  
Date Collected: 06/28/21 12:49  
Date Received: 06/29/21 10:45

**Lab Sample ID: 500-201561-6**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.261</b>		0.114	0.117	1.00	0.139	pCi/L	07/01/21 10:59	07/23/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					07/01/21 10:59	07/23/21 07:00	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.862</b>		0.272	0.284	1.00	0.352	pCi/L	07/01/21 11:48	07/14/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		40 - 110					07/01/21 11:48	07/14/21 14:07	1
Y Carrier	91.4		40 - 110					07/01/21 11:48	07/14/21 14:07	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.12</b>		0.295	0.307	5.00	0.352	pCi/L		07/25/21 11:16	1

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-08**

**Lab Sample ID: 500-201561-7**

Date Collected: 06/28/21 11:56

Matrix: Water

Date Received: 06/29/21 10:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.311		0.135	0.138	1.00	0.164	pCi/L	07/01/21 10:59	07/23/21 07:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.2		40 - 110					07/01/21 10:59	07/23/21 07:00	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.310	U	0.291	0.293	1.00	0.470	pCi/L	07/01/21 11:48	07/14/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.2		40 - 110					07/01/21 11:48	07/14/21 14:07	1
Y Carrier	91.4		40 - 110					07/01/21 11:48	07/14/21 14:07	1

**Method: 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	0.621		0.321	0.324	5.00	0.470	pCi/L		07/25/21 11:16	1

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-13**

**Lab Sample ID: 500-201561-8**

Date Collected: 06/28/21 12:24

Matrix: Water

Date Received: 06/29/21 10:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.233		0.101	0.103	1.00	0.117	pCi/L	07/01/21 10:59	07/23/21 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					07/01/21 10:59	07/23/21 07:01	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.228	U	0.235	0.235	1.00	0.382	pCi/L	07/01/21 11:48	07/14/21 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					07/01/21 11:48	07/14/21 14:07	1
Y Carrier	88.7		40 - 110					07/01/21 11:48	07/14/21 14:07	1

**Method: 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	0.461		0.256	0.257	5.00	0.382	pCi/L		07/25/21 11:16	1

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: MW-14**  
Date Collected: 06/28/21 10:54  
Date Received: 06/29/21 10:45

**Lab Sample ID: 500-201561-9**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.541		0.154	0.162	1.00	0.144	pCi/L	07/01/21 10:59	07/23/21 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		40 - 110					07/01/21 10:59	07/23/21 07:01	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.534		0.312	0.316	1.00	0.473	pCi/L	07/01/21 11:48	07/14/21 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.3		40 - 110					07/01/21 11:48	07/14/21 14:11	1
Y Carrier	92.0		40 - 110					07/01/21 11:48	07/14/21 14:11	1

**Method: 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	1.07		0.348	0.355	5.00	0.473	pCi/L		07/25/21 11:16	1

# Client Sample Results

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

Job ID: 500-201561-2

**Client Sample ID: Dup**

**Lab Sample ID: 500-201561-10**

Date Collected: 06/28/21 00:00

Matrix: Water

Date Received: 06/29/21 10:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.405		0.133	0.138	1.00	0.144	pCi/L	07/01/21 10:59	07/23/21 07:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					07/01/21 10:59	07/23/21 07:01	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.620		0.251	0.257	1.00	0.347	pCi/L	07/01/21 11:48	07/14/21 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.9		40 - 110					07/01/21 11:48	07/14/21 14:12	1
Y Carrier	91.1		40 - 110					07/01/21 11:48	07/14/21 14:12	1

**Method: 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	1.03		0.284	0.292	5.00	0.347	pCi/L		07/25/21 11:16	1

# Definitions/Glossary

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

Job ID: 500-201561-2

## Qualifiers

### Rad

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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

Job ID: 500-201561-2

## Rad

### Prep Batch: 516828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total/NA	Water	PrecSep-21	
500-201561-2	MW-07	Total/NA	Water	PrecSep-21	
500-201561-3	MW-15	Total/NA	Water	PrecSep-21	
500-201561-4	MW-02	Total/NA	Water	PrecSep-21	
500-201561-5	MW-03	Total/NA	Water	PrecSep-21	
500-201561-6	MW-04	Total/NA	Water	PrecSep-21	
500-201561-7	MW-08	Total/NA	Water	PrecSep-21	
500-201561-8	MW-13	Total/NA	Water	PrecSep-21	
500-201561-9	MW-14	Total/NA	Water	PrecSep-21	
500-201561-10	Dup	Total/NA	Water	PrecSep-21	
MB 160-516828/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-516828/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 516888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201561-1	MW-01	Total/NA	Water	PrecSep_0	
500-201561-2	MW-07	Total/NA	Water	PrecSep_0	
500-201561-3	MW-15	Total/NA	Water	PrecSep_0	
500-201561-4	MW-02	Total/NA	Water	PrecSep_0	
500-201561-5	MW-03	Total/NA	Water	PrecSep_0	
500-201561-6	MW-04	Total/NA	Water	PrecSep_0	
500-201561-7	MW-08	Total/NA	Water	PrecSep_0	
500-201561-8	MW-13	Total/NA	Water	PrecSep_0	
500-201561-9	MW-14	Total/NA	Water	PrecSep_0	
500-201561-10	Dup	Total/NA	Water	PrecSep_0	
MB 160-516888/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-516888/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-201561-2

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

**Lab Sample ID: MB 160-516828/23-A**  
**Matrix: Water**  
**Analysis Batch: 519861**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516828**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02112	U	0.0628	0.0628	1.00	0.117	pCi/L	07/01/21 10:59	07/23/21 08:49	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
%Yield	Qualifier									
Ba Carrier	89.5		40 - 110			07/01/21 10:59	07/23/21 08:49	1		

**Lab Sample ID: LCS 160-516828/1-A**  
**Matrix: Water**  
**Analysis Batch: 519861**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516828**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Radium-226	11.3	8.761		0.946	1.00	0.138	pCi/L	77	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
%Yield	Qualifier								
Ba Carrier	87.7		40 - 110						

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

**Lab Sample ID: MB 160-516888/23-A**  
**Matrix: Water**  
**Analysis Batch: 518682**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516888**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3058	U	0.256	0.258	1.00	0.408	pCi/L	07/01/21 11:48	07/14/21 14:15	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
%Yield	Qualifier									
Ba Carrier	89.5		40 - 110			07/01/21 11:48	07/14/21 14:15	1		
Y Carrier	90.8		40 - 110			07/01/21 11:48	07/14/21 14:15	1		

**Lab Sample ID: LCS 160-516888/1-A**  
**Matrix: Water**  
**Analysis Batch: 518670**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516888**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Radium-228	9.53	8.172		1.00	1.00	0.411	pCi/L	86	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
%Yield	Qualifier								
Ba Carrier	87.7		40 - 110						
Y Carrier	89.3		40 - 110						

**Chain of Custody Record**

<b>Client Information</b>		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact Richard Gnat		Phone	Mockler Diana J	State of Origin	500-92124-41061 1
Company KPRG and Associates Inc		PWSID	E-Mail Diana Mockler@Eurofinset.com	Page Page 1 of 1	
Address 14665 West Lisbon Road Suite 1A		Due Date Requested	<b>Analysis Requested</b>		
City Brookfield		TAT Requested (days)	Job # <u>500-201561</u> Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:		
State Zip WI 53005		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No			
Phone 500-201561 COC		PO # 4502041043			
Email richardg@kprginc.com		WO #			
Project Name Will County CCR Event Desc Quarterly GW Monitoring		Project # 50011609	Field Filtered Sample (Yes or No)		
Site Illinois		SSOW#	Perform MS/MSD (Yes or No)		
			903 0 904.0, Radium Combined		
			6010C Lithium, 6020A - Metals (13 elements), 7470A - Mercury		
			2540C TDS, 4500FC - Fluoride		
			SM4500CIE Chloride, SM4500SO4E - Sulfate		
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)
				Preservation Code	
					Total Number of containers
					Special Instructions/Note
1 MW-01		6/25	1545		Water
					W X X X X
MW-02		-	-		Water
MW-03		-	-		Water
MW-04		-	-		Water
2 MW-07		6/25	1650		Water
					N X X X X
MW-08		-	-		Water
MW-13		-	-		Water
MW-14		-	-		Water
3 MW-15		6/25	1625		Water
					X X X X X
<b>Possible Hazard Identification</b>			<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>		
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested I II III IV Other (specify)			Special Instructions/QC Requirements		
Empty Kit Relinquished by		Date	Time	Method of Shipment	
Relinquished by <i>Er. Blay</i>		Date/Time 6/25 8:00 AM	Company KPRG	Received by <i>Rob Farmer</i>	
				Date/Time 6/28/21 0937	
Relinquished by <i>Rob Farmer</i>		Date/Time 6/28/21 1945	Company	Received by <i>Chin...</i>	
				Date/Time 6/29/21 0700	
Relinquished by		Date/Time	Company	Received by	
				Date/Time	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks	
				0.9	



**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab P.M.:	Carrier Tracking No(s):	COC No.:							
Client Contact: Shipping/Receiving		Phone:	Mockler, Diana J		500-150019.1							
Company:		Address:	E-Mail:	State of Origin:	Page:							
TestAmerica Laboratories, Inc.		13715 Rider Trail North,	Diana.Mockler@Eurofinset.com	Illinois	Page 1 of 2							
City:		Due Date Requested:	Accreditations Required (See note):									
Earth City		8/3/2021	NELAP - Illinois									
State, Zip:		TAT Requested (days):	<b>Analysis Requested</b>									
MO, 63045												
Phone:		PO #:										
314-298-8566(Tel) 314-298-8757(Fax)		WO #:										
Email:		Project #:										
		50011609										
Site:		SSOW#:										
NRG Midwest Generation Will County												
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (Water, Seawater, Other)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>90.30/PreSep_21 Standard Target List</b>	<b>904.0/PreSep_0 Standard Target List</b>	<b>Ra226Ra228_GFPc</b>	<b>Total Number of Containers</b>	<b>Special Instructions/Note:</b>
MW-01 (500-201561-1)	6/25/21	15:45	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-07 (500-201561-2)	6/25/21	16:50	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-15 (500-201561-3)	6/25/21	16:25	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-02 (500-201561-4)	6/28/21	11:25	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-03 (500-201561-5)	6/28/21	13:16	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-04 (500-201561-6)	6/28/21	12:49	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-08 (500-201561-7)	6/28/21	11:56	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-13 (500-201561-8)	6/28/21	12:24	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-14 (500-201561-9)	6/28/21	10:54	Central	Water	Water		X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>												
<b>Possible Hazard Identification</b>												
Unconfirmed												
Deliverable Requested: I, II, III, IV, Other (specify)												
Empty Kit Relinquished by:												
Date:												
Primary Deliverable Rank: 2												
Special Instructions/QC Requirements:												
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months												
Received by: <i>Fedex</i> Date/Time:    Company: Received by: <i>Sara Worthington</i> Date/Time: <i>6/30/21</i> Company: <i>EDR</i> Received by:    Date/Time:    Company:												
Cooler Temperature(s) °C and Other Remarks:												





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-201561-2

**Login Number: 201561**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9,4.8,5.6
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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-201561-2

**Login Number: 201561**

**List Number: 2**

**Creator: Worthington, Sierra M**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 06/30/21 12:51 PM**

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

Job ID: 500-201561-2

## Client Sample ID: MW-01

Lab Sample ID: 500-201561-1

Date Collected: 06/25/21 15:45

Matrix: Water

Date Received: 06/28/21 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 06:58	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518670	07/14/21 14:06	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

## Client Sample ID: MW-07

Lab Sample ID: 500-201561-2

Date Collected: 06/25/21 16:50

Matrix: Water

Date Received: 06/28/21 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 06:58	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518670	07/14/21 14:06	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

## Client Sample ID: MW-15

Lab Sample ID: 500-201561-3

Date Collected: 06/25/21 16:25

Matrix: Water

Date Received: 06/28/21 19:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 06:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518670	07/14/21 14:06	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

## Client Sample ID: MW-02

Lab Sample ID: 500-201561-4

Date Collected: 06/28/21 11:25

Matrix: Water

Date Received: 06/29/21 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 06:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518670	07/14/21 14:06	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL



# Lab Chronicle

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

Job ID: 500-201561-2

## Client Sample ID: MW-03

Lab Sample ID: 500-201561-5

Date Collected: 06/28/21 13:16

Matrix: Water

Date Received: 06/29/21 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 06:59	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518670	07/14/21 14:06	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

## Client Sample ID: MW-04

Lab Sample ID: 500-201561-6

Date Collected: 06/28/21 12:49

Matrix: Water

Date Received: 06/29/21 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 07:00	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518670	07/14/21 14:07	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

## Client Sample ID: MW-08

Lab Sample ID: 500-201561-7

Date Collected: 06/28/21 11:56

Matrix: Water

Date Received: 06/29/21 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 07:00	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518670	07/14/21 14:07	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

## Client Sample ID: MW-13

Lab Sample ID: 500-201561-8

Date Collected: 06/28/21 12:24

Matrix: Water

Date Received: 06/29/21 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 07:01	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518670	07/14/21 14:07	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

# Lab Chronicle

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

Job ID: 500-201561-2

**Client Sample ID: MW-14**

**Date Collected: 06/28/21 10:54**

**Date Received: 06/29/21 10:45**

**Lab Sample ID: 500-201561-9**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 07:01	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518682	07/14/21 14:11	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

**Client Sample ID: Dup**

**Date Collected: 06/28/21 00:00**

**Date Received: 06/29/21 10:45**

**Lab Sample ID: 500-201561-10**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516828	07/01/21 10:59	MJ	TAL SL
Total/NA	Analysis	903.0		1	519861	07/23/21 07:01	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516888	07/01/21 11:48	MJ	TAL SL
Total/NA	Analysis	904.0		1	518682	07/14/21 14:12	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520060	07/25/21 11:16	SCB	TAL SL

#### Laboratory References:

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

# Tracer/Carrier Summary

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

Job ID: 500-201561-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-201561-1	MW-01	80.7	
500-201561-2	MW-07	78.6	
500-201561-3	MW-15	72.0	
500-201561-4	MW-02	96.1	
500-201561-5	MW-03	96.1	
500-201561-6	MW-04	94.3	
500-201561-7	MW-08	76.2	
500-201561-8	MW-13	91.0	
500-201561-9	MW-14	75.3	
500-201561-10	Dup	97.9	
LCS 160-516828/1-A	Lab Control Sample	87.7	
MB 160-516828/23-A	Method Blank	89.5	

**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 (40-110)	Y (40-110)
500-201561-1	MW-01	80.7	86.0
500-201561-2	MW-07	78.6	89.3
500-201561-3	MW-15	72.0	89.9
500-201561-4	MW-02	96.1	92.0
500-201561-5	MW-03	96.1	90.2
500-201561-6	MW-04	94.3	91.4
500-201561-7	MW-08	76.2	91.4
500-201561-8	MW-13	91.0	88.7
500-201561-9	MW-14	75.3	92.0
500-201561-10	Dup	97.9	91.1
LCS 160-516888/1-A	Lab Control Sample	87.7	89.3
MB 160-516888/23-A	Method Blank	89.5	90.8

**Tracer/Carrier Legend**  
Ba = Ba Carrier  
Y = Y Carrier