

## **DATA SUMMARY POSTING**

Station: Midwest Generation Joliet #9 Generating Station

Regulated Unit(s): Lincoln Stone Quarry (IEPA ID No. W1970450046-01)

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, Joliet #9 Generating Station, Joliet, 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	
G45S up-gradient	11/20/2015	0.81	120	180	0.35	7.20	360	810	< 0.003	0.0081	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.036	< 0.0002	0.0120	1.76	< 0.0025	< 0.002	
	5/12/2016	0.68	110	140	0.34	7.37	230	860	< 0.003	0.0076	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.036	< 0.0002	0.0100	3.01	< 0.0025	< 0.002	
	6/30/2016	0.48	87	110	0.34	7.50	170	670	< 0.003	0.0075	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.034	< 0.0002	0.008	2.05	< 0.0025	< 0.002	
	8/25/2016	0.47	94	100	0.35	7.28	170	790	< 0.003	0.0076	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.031	< 0.0002	0.0086	1.91	< 0.0025	< 0.002	
	11/16/2016	0.41	91	90	0.33	7.34	170	620	< 0.003	0.0079	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.028	< 0.0002	0.0094	2.04	< 0.0025	< 0.002	
	2/14/2017	0.43	97	97	0.32	7.36	160	620	< 0.003	0.0093	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.029	< 0.0002	0.0083	1.85	< 0.0025	< 0.002	
	5/23/2017	0.36	85	110	0.35	7.30	150	660	< 0.003	0.0082	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.027	< 0.0002	0.0093	1.40	< 0.0025	< 0.002	
	7/7/2017	0.42	94	120	< 0.1	7.21	150	600	< 0.003	0.0086	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.1	< 0.0005	0.030	< 0.0002	0.007	1.88	< 0.0025	< 0.002	
	9/26/2017	0.43	110	130	0.3	7.21	160	790	< 0.003	0.0096	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	0.3	< 0.0005	0.029	< 0.0002	0.0079	2.14	< 0.0025	< 0.002	
	11/21/2017	0.34	96	130	0.33	7.29	180	700	< 0.003	0.0094	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.028	< 0.0002	0.0072	8.45	< 0.0025	< 0.002	
	3/9/2018	0.38	97	110	0.32	7.18	180	710	< 0.003	0.0093	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.028	< 0.0002	0.008	1.89	< 0.0025	< 0.002	
	5/21/2018	0.76	110	150	0.33	7.00	230	970	NA	0.0072	0.047	NA	NA	NA	< 0.001	0.33	< 0.0005	0.033	NA	0.013	2.37	< 0.0025	NA	
	12/7/2018	0.46	91	120	0.33	7.02	100	740	NA	0.0090	0.034	NA	NA	NA	< 0.001	0.330	< 0.0005	0.031	NA	0.0100	1.910	< 0.0025	NA	
	6/28/2019	0.39	96	130	0.33	7.51	120	720	NA	0.0100	0.039	NA	NA	NA	< 0.001	0.33	< 0.0005	0.032	NA	0.0087	1.99	< 0.0025	NA	
	11/14/2019	0.48	110	170	0.33	7.33	170	830	NA	< 0.0100	0.042	NA	NA	NA	< 0.001	0.33	< 0.0005	0.034	NA	0.0100	2.89	< 0.0025	NA	
	6/26/2020	0.62	130	220	0.33	7.21	240	970	NA	0.011	0.049	NA	NA	NA	< 0.001	0.33	< 0.0005	0.039	NA	0.0088	3.1	< 0.0025	NA	
	12/11/2020	0.70	120	180	0.38	7.16	220	760	NA	0.011	0.042	NA	NA	NA	< 0.001	0.38	< 0.0005	0.038	NA	0.012	1.88	< 0.0025	NA	
	6/28/2021	0.44	91	110	0.35	7.20	150	680	< 3	0.01	0.034	< 1.00	< 0.50	< 5.00	< 0.001	0.35	< 0.0005	0.031	< 0.00020	0.0083	DNYA	< 0.0025	< 2.00	
	T08S up-gradient	11/19/2015	0.5	110	75	0.22	7.07	250	710	< 0.003	0.0019	0.063	< 0.001	< 0.0005	< 0.005	< 0.001	0.22	< 0.0005	0.019	< 0.0002	0.0063	1.101	< 0.0025	< 0.002
		5/5/2016	0.84	100	100	0.21	7.16	190	820	< 0.003	0.0013	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	0.018	< 0.0002	0.03	1.43	< 0.0025	< 0.002
		6/28/2016	0.98	100	94	0.19	7.30	180	910	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	< 0.011	0.19	< 0.0005	0.017	< 0.0002	0.037	1.18	< 0.0025	< 0.002
8/25/2016		1.1	110	99	0.20	7.32	180	880	< 0.003	< 0.001	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.2	< 0.0005	0.016	< 0.0002	0.043	1.54	< 0.0025	< 0.002	
11/17/2016		1.3	120	100	0.19	7.14	150	860	< 0.003	0.0012	0.096	< 0.001	< 0.0005	< 0.005	< 0.012	0.19	< 0.0005	0.022	< 0.0002	0.14	1.61	< 0.0025	< 0.002	
2/15/2017		1.0	98	110	0.19	7.36	230	810	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	0.013	0.19	< 0.0005	< 0.05	< 0.0002	0.12	0.938	< 0.0025	< 0.002	
5/22/2017		1.4	110	78	0.23	7.25	160	740	< 0.003	0.0017	B 0.088	< 0.001	< 0.0005	< 0.005	0.015	0.23	< 0.0005	0.023	< 0.0002	0.13	1.21	< 0.0025	< 0.002	
7/7/2017		1.1	100	FI	< 0.1	7.32	180	710	< 0.003	< 0.001	0.078	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.1	< 0.0005	0.019	< 0.0002	0.099	1.11	< 0.0025	< 0.002	
9/26/2017		1.3	110	80	0.21	7.19	240	790	< 0.003	0.0011	0.086	< 0.001	< 0.0005	< 0.005	0.013	0.21	< 0.0005	0.018	< 0.0002	0.14	1.33	< 0.0025	< 0.002	
11/20/2017		1.7	98	90	0.24	7.13	230	770	< 0.003	0.0014	0.087	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	0.02	< 0.0002	0.2	1.59	< 0.0025	< 0.002	
3/7/2018		1.5	110	110	0.23	7.34	250	900	< 0.003	0.0023	0.093	< 0.001	< 0.0005	< 0.005	0.013	0.23	< 0.0005	0.022	< 0.0002	0.26	1.30	< 0.0025	< 0.002	
5/17/2018		1.8	100	82	0.24	7.07	210	890	NA	0.001	0.087	NA	NA	NA	0.013	0.24	< 0.0005	0.021	NA	0.240	1.25	< 0.0025	NA	
12/11/2018		1.8	100	140	0.23	6.96	160	890	NA	0.0014	0.095	NA	NA	NA	0.012	0.230	< 0.0005	0.021	NA	0.270	1.31	< 0.0025	NA	
6/24/2019		2.7	100	89	0.27	7.17	260	830	NA	0.0020	0.090	NA	NA	NA	0.010	0.270	< 0.0005	0.027	NA	0.370	1.33	< 0.0025	NA	
10/28/2019		1.5	100	73	0.25	7.19	< 500	780	NA	< 0.0100	0.088	NA	NA	NA	0.011	0.25	< 0.0005	0.026	NA	0.210	1.38	< 0.0025	NA	
6/23/2020		2.3	97	74	0.33	7.29	240	770	NA	0.0024	0.093	NA	NA	NA	< 0.001	0.33	< 0.0005	0.025	NA	0.23	1.65	< 0.0025	NA	
12/15/2020		1.4	140	FI	0.27	7.01	280	960	NA	0.0013	0.11	NA	NA	NA	0.015	0.27	< 0.0005	0.031	NA	0.14	1.74	< 0.0025	NA	
6/22/2021		0.92	120	130	0.23	6.94	220	980	< 0.0030	0.0016	0.085	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	0.029	H< 0.00020	0.071	DNYA	< 0.0025	< 0.0020	
R08S down-gradient		11/23/2015	6.9	130	77	0.19	7.80	520	740	< 0.003	0.0019	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.14	< 0.0002	0.410	1.608	0.0061	< 0.002
		5/6/2016	6.1	120	80	0.19	7.70	380	820	< 0.003	0.0013	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.14	< 0.0002	0.390	1.08	0.0079	< 0.002
		6/28/2016	6.8	130	89	0.18	7.49	320	960	< 0.003	0.0019	0.056	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	0.14	< 0.0002	0.37	1.87	FI 0.0074	< 0.002
	8/25/2016	6.3	120	84	0.19	7.54	350	890	< 0.003	0.0015	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.13	< 0.0002	0.33	1.50	0.0032	< 0.002	
	11/21/2016	6.4	120	86	0.17	7.53	280	790	< 0.003	0.0016	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	0.140	< 0.0002	0.36	2.13	0.0037	< 0.002	
	2/14/2017	5.4	150	220	0.17	7.60	280	1,000	< 0.003	0.002	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	0.120	< 0.0002	0.3	2.71	0.0029	< 0.002	
	5/25/2017	12	250	90	0.17	7.56	340	830	< 0.006	0.0028	0.092	< 0.002	< 0.001	< 0.01	< 0.002	0.17	< 0.001	0.250	< 0.0002	0.64	0.821	< 0.004	< 0.004	
	7/6/2017	6.3	140	87	0.17	7.62	350	830	< 0.003	0.002	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	0.140	< 0.0002	0.35	1.15	0.0054	< 0.002	
	9/25/2017	7.3	140	81	0.15	7.57	390	840	< 0.003	0.002	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.15	&lt							

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Joliet #9 Generating Station, Joliet, 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	
R32S down-gradient	11/19/2015	1.3	99	88	0.28	7.32	210	640	< 0.003	0.0018	0.033	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	0.04	< 0.0002	0.16	1.928	< 0.0025	< 0.002	
	5/5/2016	1.9	100	140	0.32	7.38	210	810	< 0.003	0.0034	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.069	< 0.0002	0.29	3.26	< 0.0025	< 0.002	
	6/29/2016	2.5	110	110	0.35	7.53	280	860	< 0.003	0.0021	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.065	< 0.0002	0.43	2.12	< 0.0025	< 0.002	
	8/26/2016	3.0	120	100	0.4	7.30	330	850	< 0.003	0.0014	0.043	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.056	< 0.0002	0.48	2.39	< 0.0025	< 0.002	
	11/18/2016	3.3	120	99	0.34	7.38	270	830	< 0.003	0.0016	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.063	< 0.0002	0.55	3.17	< 0.0025	< 0.002	
	2/16/2017	4.0	120	99	0.34	7.39	340	830	< 0.003	0.002	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.064	< 0.0002	0.57	1.76	F1 < 0.0025	< 0.002	
	5/25/2017	8.3	240	88	0.42	7.54	320	850	< 0.006	0.0042	0.075	^ < 0.002	< 0.001	< 0.005	< 0.001	0.42	< 0.001	0.14	< 0.0002	1.4	1.82	< 0.0025	< 0.004	
	7/7/2017	6.2	120	96	0.42	7.61	360	830	< 0.003	0.0043	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	0.42	< 0.0005	0.1	< 0.0002	0.87	2.08	< 0.0025	< 0.002	
	9/28/2017	4.8	140	78	0.36	7.29	290	870	< 0.003	0.003	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	0.36	< 0.0005	0.086	< 0.0002	0.57	1.79	< 0.0025	< 0.002	
	11/21/2017	5.7	120	97	0.38	7.50	390	900	< 0.003	0.0037	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.38	< 0.0005	0.11	< 0.0002	0.74	1.82	< 0.0025	< 0.002	
	3/7/2018	5.8	130	86	0.32	7.57	350	880	< 0.003	0.0029	0.042	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	0.11	< 0.0002	0.67	2.56	< 0.0025	< 0.002	
	5/21/2018	4.4	120	77	0.29	7.13	310	1,000	NA	0.0024	0.04	NA	NA	NA	< 0.001	0.29	< 0.0005	0.1	NA	0.64	2.22	< 0.0025	NA	
	12/13/2018	3.5	120	F1	0.26	7.43	280	880	NA	0.0019	0.043	NA	NA	NA	< 0.001	0.260	< 0.0017	0.080	NA	0.560	2.23	< 0.0025	NA	
	6/27/2019	6.3	140	74	0.27	7.33	380	880	NA	0.0027	0.041	NA	NA	NA	< 0.001	0.270	< 0.0005	0.090	NA	0.810	2.67	< 0.0025	NA	
	11/6/2019	4.8	150	69	0.27	7.45	360	820	NA	< 0.01	0.039	NA	NA	NA	< 0.001	0.270	< 0.0005	0.13	NA	0.580	2.370	< 0.0100	NA	
	6/29/2020	6.0	130	71	0.28	7.47	400	790	NA	0.0021	0.038	NA	NA	NA	< 0.001	0.28	< 0.0005	0.11	NA	0.64	3.92	< 0.0025	NA	
	12/16/2020	6.1	150	F1	0.34	7.43	430	840	NA	0.0025	0.038	NA	NA	NA	< 0.001	0.34	^ < 0.0005	0.11	NA	0.75	3.22	F1 < 0.0025	NA	
	6/28/2021	4.0 B	130	56	0.3	7.16	430	790	< 3	< 0.001	0.036	< 1	< 0.5	< 5	< 0.001	0.3	< 0.0005	0.071	< 0.00020	0.53	DNYA	< 0.0025	< 2	
	G44S down-gradient	11/20/2015	1.0	120	43	0.21	7.11	220	640	< 0.003	0.0012	0.053	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	0.017	< 0.0002	0.1000	1.161	< 0.0025	< 0.002
		5/9/2016	0.91	110	37	0.18	7.39	120	690	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	0.015	< 0.0002	0.046	< 0.415	< 0.0025	< 0.002
6/30/2016		0.69	100	32	0.18	7.59	99	620	< 0.003	< 0.001	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	0.014	< 0.0002	0.025	0.879	< 0.0025	< 0.002	
8/26/2016		0.9	120	36	0.19	7.12	110	710	< 0.003	< 0.001	0.053	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.014	< 0.0002	0.047	0.816	< 0.0025	< 0.002	
11/16/2016		0.82	120	26	0.17	7.15	88	530	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	0.011	< 0.0002	0.041	0.475	< 0.0025	< 0.002	
2/16/2017		0.86	120	30	0.15	7.38	120	620	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.15	< 0.0005	0.014	< 0.0002	0.044	0.729	< 0.0025	< 0.002	
5/24/2017		0.83	120	31	0.19	7.08	95	600	< 0.003	< 0.001	0.048	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.011	< 0.0002	0.031	1.02	< 0.0025	< 0.002	
7/10/2017		0.83	110	30	< 0.1	7.00	110	700	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.1	< 0.0005	0.012	< 0.0002	0.061	0.667	< 0.0025	< 0.002	
9/28/2017		0.99	130	30	0.19	7.13	100	730	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.014	< 0.0002	0.081	0.614	< 0.0025	< 0.002	
11/21/2017		0.79	110	35	0.18	7.06	120	640	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	0.016	< 0.0002	0.055	0.913	< 0.0025	< 0.002	
3/7/2018		0.91	120	36	0.18	7.19	110	670	< 0.003	0.0014	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	0.017	< 0.0002	0.049	1.31	< 0.0025	< 0.002	
5/17/2018		0.98	120	35	0.18	7.02	96	780	NA	< 0.001	0.054	NA	NA	NA	< 0.001	0.18	< 0.0005	0.016	NA	0.071	0.714	< 0.0025	NA	
12/10/2018		1.1	120	43	0.19	7.41	78	630	NA	< 0.001	0.057	NA	NA	NA	< 0.001	0.19	< 0.0005	0.019	NA	0.14	0.454	< 0.0025	NA	
6/19/2019		1.3	130	59	0.19	7.02	140	720	NA	< 0.001	0.062	NA	NA	NA	< 0.001	0.19	< 0.0005	0.023	NA	0.13	0.841	< 0.0025	NA	
11/12/2019		1.3	140	53	0.21	7.22	160	670	NA	< 0.01	0.065	NA	NA	NA	< 0.001	0.21	< 0.0005	0.026	NA	0.20	1.01	< 0.01	NA	
6/29/2020		1.4	130	52	0.21	7.30	160	670	NA	< 0.001	0.06	NA	NA	NA	< 0.001	0.21	< 0.0005	0.024	NA	0.15	1.860	< 0.0025	NA	
12/15/2020		1.7	140	52	0.25	7.17	180	650	NA	< 0.001	0.062	NA	NA	NA	< 0.001	0.25	< 0.0005	0.03	NA	0.28	1.18	< 0.0025	NA	
6/30/2021		1.9 B	120	65	0.21	7	170	730	< 3	< 0.001	0.058	U^ < 1	< 0.5	< 5	< 0.001	0.21	< 0.0005	0.026	< 0.00020	0.22	DNYA	< 0.0025	< 2.0	
G46S down-gradient		11/23/2015	6.0	110	80	0.27	7.32	430	780	< 0.003	0.0033	0.064	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.27	< 0.0005	0.073	< 0.0002	0.5	1.468	< 0.0025	< 0.002
		5/9/2016	7.7	100	100	0.28	7.77	360	940	< 0.003	0.0018	0.099	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	0.11	< 0.0002	0.7	1.85	< 0.0025	< 0.002
	6/30/2016	7.9	100	99	0.29	8.26	290	880	< 0.003	0.0014	0.098	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	0.13	< 0.0002	0.71	1.94	< 0.0025	< 0.002	
	8/26/2016	7.2	100	120	0.35	7.48	350	1,000	< 0.003	0.0027	0.054	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.12	< 0.0002	1.2	1.17	< 0.0025	< 0.002	
	11/18/2016	6.5	110	120	0.39	7.56	330	1,000	< 0.003	0.0025	0.051	< 0.001	< 0.0005	< 0.005	< 0.0010	0.39	< 0.0005	0.13	< 0.0002	1.8	< 0.601	< 0.0025	< 0.002	
	2/16/2017	6.1	100	150	0.41	7.94	410	1,000	< 0.003	0.0024	0.053	< 0.001	< 0.0005	< 0.005	< 0.0010	0.41	< 0.0005	0.091	< 0.0002	1.4	1.07	< 0.0025	< 0.002	
	5/22/2017	6.8	100	130	0.44	7.37	350	970	< 0.003	0.0033	B 0.046	^ < 0.001	< 0.0005	< 0.005	< 0.0010	0.44	< 0.0005	0.11	< 0.0002	1.4	0.683	< 0.0025	< 0.002	
	7/6/2017	4.9	100	150	0.41	7.33	290	880	< 0.003	0.0034	0.044	< 0.001	< 0.0005	< 0.005	0.010	0.41	^ < 0.0005	0.076	< 0.0002	0.92	0.709	< 0.0025	^ < 0.002	
	9/27/2017	4.9	88	160	0.4	7.28	270	890	< 0.003	0.0043	0.031	< 0.001	< 0.0005	< 0.00										

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Joliet #9 Generating Station, Joliet, IL.

Well ID	Date	Turbidity (NTU)
G45S	3/12/2021	0.87
	4/5/2021	0.33
	4/23/2021	0.54
	5/18/2021	0.36
	6/8/2021	0.64
T03S	03/15/21	2.42
	4/1/2021	0.44
	4/22/2021	94
	5/17/2021	0.47
	6/7/2021	0.47
R08S	3/12/2021	0.19
	4/1/2021	0.46
	4/23/2021	0.34
	5/18/2021	0.24
	6/8/2021	0.2
G20S	3/12/2021	0.32
	4/1/2021	0.29
	4/22/2021	0.14
	5/18/2021	0.63
	6/8/2021	0.2
G30S	3/12/2021	0.05
	4/2/2021	0.14
	4/23/2021	0.25
	5/18/2021	0.43
	6/8/2021	0.61
R32S	3/12/2021	0.42
	4/5/2021	0.81
	4/23/2021	1.23
	5/18/2021	1.78
	6/8/2021	1.14
G44S	3/15/2021	3.66
	4/5/2021	3.89
	4/23/2021	3.31
	5/18/2021	1.41
	6/8/2021	1.42
G46S	3/15/2021	18.4
	4/5/2021	106.5
	4/23/2021	59.2
	5/18/2021	181
	6/8/2021	3140
G47S	3/15/2021	0.12
	4/5/2021	0.1
	4/22/2021	0.16
	5/18/2021	0.14
	6/8/2021	0.53
G48S	3/15/2021	0.47
	4/5/2021	0.14
	4/22/2021	0.22
	5/18/2021	0.44
	6/8/2021	0.24

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-201190-1  
Client Project/Site: Joliet #9 (Quarry) CCR 2Q21

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

Attn: Richard Gnat



Authorized for release by:  
7/16/2021 5:46:50 PM

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

### LINKS

Review your project  
results through  
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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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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## Job ID: 500-201190-1

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Laboratory: Eurofins TestAmerica, Chicago

### Narrative

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#### Job Narrative 500-201190-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/21/2021 3:16 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 0.6° C, 1.8° C, 2.9° C, 3.6° C, 4.0° C and 5.8° C.

#### Metals

Method 6020A: The method blank for preparation batch 500-606931 and analytical batch 500-607492 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.

Method 6020A: The initial low level continuing calibration verification (ICVL) associated with batch 500-607568 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.

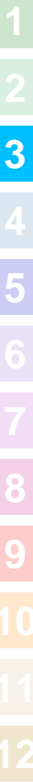
Method 6020A: The method blank for preparation batch 500-607199 and analytical batch 500-607568 contained Boron above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

#### General Chemistry

Method SM 4500 SO4 E: Due to the high concentration of sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 500-609689 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	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
Field Sampling	Field Sampling	EPA	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI

#### Protocol References:

EPA = US Environmental Protection Agency

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

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

#### Laboratory References:

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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-201190-1	T02S	Water	06/21/21 10:12	06/21/21 14:10	
500-201190-2	T08S	Water	06/21/21 11:46	06/21/21 14:10	
500-201190-3	T03S	Water	06/22/21 09:13	06/22/21 15:16	
500-201190-4	T06S	Water	06/22/21 10:45	06/22/21 15:16	
500-201190-5	T05S	Water	06/22/21 13:07	06/22/21 15:16	
500-201190-6	T09S	Water	06/23/21 09:43	06/23/21 15:37	
500-201190-7	G20S	Water	06/23/21 11:20	06/23/21 15:37	
500-201190-8	R08S	Water	06/23/21 14:05	06/23/21 15:37	
500-201190-9	G48S	Water	06/24/21 08:48	06/24/21 14:28	
500-201190-10	G47S	Water	06/24/21 10:15	06/24/21 14:28	
500-201190-11	G33S	Water	06/24/21 12:11	06/24/21 14:28	
500-201190-12	DUP	Water	06/24/21 12:11	06/24/21 14:28	
500-201190-13	T04S	Water	06/28/21 09:00	06/28/21 15:45	
500-201190-14	T01S	Water	06/28/21 10:01	06/28/21 15:45	
500-201190-15	R32S	Water	06/28/21 13:39	06/28/21 15:45	
500-201190-16	G45S	Water	06/28/21 14:33	06/28/21 15:45	
500-201190-17	G44S	Water	06/30/21 09:27	06/30/21 14:28	
500-201190-18	G46S	Water	06/30/21 10:22	06/30/21 14:28	
500-201190-19	G30S	Water	06/30/21 11:20	06/30/21 14:28	
500-201190-20	G31S	Water	06/30/21 13:25	06/30/21 14:28	

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T02S**

**Lab Sample ID: 500-201190-1**

Date Collected: 06/21/21 10:12

Matrix: Water

Date Received: 06/21/21 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.038		0.010		mg/L		06/24/21 08:44	06/29/21 13:45	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		06/24/21 08:44	06/25/21 13:36	1
Arsenic	0.0094		0.0010		mg/L		06/24/21 08:44	06/25/21 13:36	1
Barium	0.063		0.0025		mg/L		06/24/21 08:44	06/25/21 13:36	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 13:36	1
Boron	5.9		1.0		mg/L		06/24/21 08:44	06/28/21 12:45	20
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 13:36	1
Calcium	49		0.20		mg/L		06/24/21 08:44	06/25/21 13:36	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 13:36	1
Cobalt	0.0029		0.0010		mg/L		06/24/21 08:44	06/25/21 13:36	1
Lead	0.00099		0.00050		mg/L		06/24/21 08:44	06/25/21 13:36	1
Molybdenum	0.50		0.0050		mg/L		06/24/21 08:44	06/25/21 13:36	1
Selenium	<0.0025		0.0025		mg/L		06/24/21 08:44	06/25/21 13:36	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 13:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	920		10		mg/L			06/22/21 03:41	1
Chloride	95		10		mg/L			07/14/21 13:35	5
Fluoride	0.53		0.10		mg/L			07/15/21 17:21	1
Sulfate	380		100		mg/L			07/14/21 14:08	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	132.96				ft			06/21/21 10:12	1
Depth to Water (ft from MP)	135.29				ft			06/21/21 10:12	1
Elevation of well (ft from MP)	626.12				ft			06/21/21 10:12	1
Field pH	7.69				SU			06/21/21 10:12	1
Field Temperature	61.3				Degrees F			06/21/21 10:12	1
Ground Water Elevation	490.83				ft			06/21/21 10:12	1
Specific Conductance	1285				umhos/cm			06/21/21 10:12	1
Well bottom elevation	453.40				ft			06/21/21 10:12	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T08S**

**Lab Sample ID: 500-201190-2**

Date Collected: 06/21/21 11:46

Matrix: Water

Date Received: 06/21/21 14:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.035		0.010		mg/L		06/24/21 08:44	06/29/21 14:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.043		0.0030		mg/L		06/24/21 08:44	06/25/21 14:00	1
Arsenic	0.017		0.0010		mg/L		06/24/21 08:44	06/25/21 14:00	1
Barium	0.038		0.0025		mg/L		06/24/21 08:44	06/25/21 14:00	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:00	1
Boron	7.4		1.0		mg/L		06/24/21 08:44	06/28/21 13:09	20
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:00	1
Calcium	33		0.20		mg/L		06/24/21 08:44	06/25/21 14:00	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 14:00	1
Cobalt	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:00	1
Lead	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:00	1
Molybdenum	0.71		0.0050		mg/L		06/24/21 08:44	06/25/21 14:00	1
Selenium	<0.0025		0.0025		mg/L		06/24/21 08:44	06/25/21 14:00	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 14:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	990		10		mg/L			06/22/21 03:44	1
Chloride	100		10		mg/L			07/14/21 13:36	5
Fluoride	0.70		0.10		mg/L			07/15/21 17:29	1
Sulfate	450		100		mg/L			07/14/21 14:09	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	128.63				ft			06/21/21 11:46	1
Depth to Water (ft from MP)	131.01				ft			06/21/21 11:46	1
Elevation of well (ft from MP)	627.50				ft			06/21/21 11:46	1
Field pH	8.18				SU			06/21/21 11:46	1
Field Temperature	65.5				Degrees F			06/21/21 11:46	1
Ground Water Elevation	496.49				ft			06/21/21 11:46	1
Specific Conductance	1370				umhos/cm			06/21/21 11:46	1
Well bottom elevation	447.38				ft			06/21/21 11:46	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T03S**

**Lab Sample ID: 500-201190-3**

Date Collected: 06/22/21 09:13

Matrix: Water

Date Received: 06/22/21 15:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.029		0.010		mg/L		06/24/21 08:44	06/29/21 14:05	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		06/24/21 08:44	06/25/21 14:03	1
Arsenic	0.0016		0.0010		mg/L		06/24/21 08:44	06/25/21 14:03	1
Barium	0.085		0.0025		mg/L		06/24/21 08:44	06/25/21 14:03	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:03	1
Boron	0.92		0.25		mg/L		06/24/21 08:44	06/28/21 13:12	5
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:03	1
Calcium	120		0.20		mg/L		06/24/21 08:44	06/25/21 14:03	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 14:03	1
Cobalt	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:03	1
Lead	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:03	1
Molybdenum	0.071		0.0050		mg/L		06/24/21 08:44	06/25/21 14:03	1
Selenium	<0.0025		0.0025		mg/L		06/24/21 08:44	06/25/21 14:03	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 14:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	980		10		mg/L			06/23/21 05:33	1
Chloride	130		10		mg/L			07/14/21 13:36	5
Fluoride	0.23		0.10		mg/L			07/15/21 17:32	1
Sulfate	220		25		mg/L			07/14/21 14:01	5

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	136.30				ft			06/22/21 09:13	1
Depth to Water (ft from MP)	139.38				ft			06/22/21 09:13	1
Elevation of well (ft from MP)	629.74				ft			06/22/21 09:13	1
Field pH	6.94				SU			06/22/21 09:13	1
Field Temperature	55.6				Degrees F			06/22/21 09:13	1
Ground Water Elevation	490.36				ft			06/22/21 09:13	1
Specific Conductance	1112				umhos/cm			06/22/21 09:13	1
Well bottom elevation	456.70				ft			06/22/21 09:13	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T06S**

**Lab Sample ID: 500-201190-4**

Date Collected: 06/22/21 10:45

Matrix: Water

Date Received: 06/22/21 15:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.028		0.010		mg/L		06/24/21 08:44	06/29/21 14:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0035		0.0030		mg/L		06/24/21 08:44	06/25/21 14:07	1
Arsenic	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:07	1
Barium	0.035		0.0025		mg/L		06/24/21 08:44	06/25/21 14:07	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:07	1
Boron	0.80		0.25		mg/L		06/24/21 08:44	06/28/21 13:15	5
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:07	1
Calcium	84		0.20		mg/L		06/24/21 08:44	06/25/21 14:07	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 14:07	1
Cobalt	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:07	1
Lead	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:07	1
Molybdenum	0.0077		0.0050		mg/L		06/24/21 08:44	06/25/21 14:07	1
Selenium	<0.0025		0.0025		mg/L		06/24/21 08:44	06/25/21 14:07	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 14:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10		mg/L			06/23/21 05:36	1
Chloride	9.9		2.0		mg/L			07/14/21 13:27	1
Fluoride	0.43		0.10		mg/L			07/15/21 17:36	1
Sulfate	100		25		mg/L			07/14/21 14:01	5

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	114.56				ft			06/22/21 10:45	1
Depth to Water (ft from MP)	116.86				ft			06/22/21 10:45	1
Elevation of well (ft from MP)	620.99				ft			06/22/21 10:45	1
Field pH	7.50				SU			06/22/21 10:45	1
Field Temperature	69.8				Degrees F			06/22/21 10:45	1
Ground Water Elevation	504.13				ft			06/22/21 10:45	1
Specific Conductance	668				umhos/cm			06/22/21 10:45	1
Well bottom elevation	447.94				ft			06/22/21 10:45	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T05S**

**Lab Sample ID: 500-201190-5**

Date Collected: 06/22/21 13:07

Matrix: Water

Date Received: 06/22/21 15:16

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.022		0.010		mg/L		06/24/21 08:44	06/29/21 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		06/24/21 08:44	06/25/21 14:10	1
Arsenic	0.13		0.0010		mg/L		06/24/21 08:44	06/25/21 14:10	1
Barium	0.010		0.0025		mg/L		06/24/21 08:44	06/25/21 14:10	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:10	1
Boron	14		5.0		mg/L		06/24/21 08:44	06/28/21 13:19	100
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:10	1
Calcium	3.7		0.20		mg/L		06/24/21 08:44	06/25/21 14:10	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 14:10	1
Cobalt	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:10	1
Lead	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:10	1
Molybdenum	1.0		0.0050		mg/L		06/24/21 08:44	06/25/21 14:10	1
Selenium	0.0044		0.0025		mg/L		06/24/21 08:44	06/25/21 14:10	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 14:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			06/23/21 05:39	1
Chloride	120		10		mg/L			07/14/21 13:37	5
Fluoride	1.6		0.10		mg/L			07/15/21 17:39	1
Sulfate	630		100		mg/L			07/14/21 14:09	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	122.29				ft			06/22/21 13:07	1
Depth to Water (ft from MP)	124.69				ft			06/22/21 13:07	1
Elevation of well (ft from MP)	623.46				ft			06/22/21 13:07	1
Field pH	9.97				SU			06/22/21 13:07	1
Field Temperature	74.1				Degrees F			06/22/21 13:07	1
Ground Water Elevation	498.77				ft			06/22/21 13:07	1
Specific Conductance	2330				umhos/cm			06/22/21 13:07	1
Well bottom elevation	448.35				ft			06/22/21 13:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T09S**

**Lab Sample ID: 500-201190-6**

Date Collected: 06/23/21 09:43

Matrix: Water

Date Received: 06/23/21 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.095		0.010		mg/L		06/24/21 08:44	06/29/21 14:31	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		06/24/21 08:44	06/25/21 14:14	1
Arsenic	0.0026		0.0010		mg/L		06/24/21 08:44	06/25/21 14:14	1
Barium	0.074		0.0025		mg/L		06/24/21 08:44	06/25/21 14:14	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:14	1
Boron	8.1		1.0		mg/L		06/24/21 08:44	06/28/21 13:22	20
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:14	1
Calcium	120		0.20		mg/L		06/24/21 08:44	06/25/21 14:14	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 14:14	1
Cobalt	0.0011		0.0010		mg/L		06/24/21 08:44	06/25/21 14:14	1
Lead	0.00088		0.00050		mg/L		06/24/21 08:44	06/25/21 14:14	1
Molybdenum	1.2		0.0050		mg/L		06/24/21 08:44	06/25/21 14:14	1
Selenium	<0.0025		0.0025		mg/L		06/24/21 08:44	06/25/21 14:14	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 14:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/27/21 22:59	1
Chloride	80		10		mg/L			07/14/21 13:37	5
Fluoride	0.40		0.10		mg/L			07/15/21 17:42	1
Sulfate	510		100		mg/L			07/14/21 14:10	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	101.40				ft			06/23/21 09:43	1
Depth to Water (ft from MP)	103.80				ft			06/23/21 09:43	1
Elevation of well (ft from MP)	603.69				ft			06/23/21 09:43	1
Field pH	7.34				SU			06/23/21 09:43	1
Field Temperature	59.0				Degrees F			06/23/21 09:43	1
Ground Water Elevation	499.89				ft			06/23/21 09:43	1
Specific Conductance	1429				umhos/cm			06/23/21 09:43	1
Well bottom elevation	444.80				ft			06/23/21 09:43	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G20S**

**Lab Sample ID: 500-201190-7**

Date Collected: 06/23/21 11:20

Matrix: Water

Date Received: 06/23/21 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.047		0.010		mg/L		06/24/21 08:44	06/29/21 14:34	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		06/24/21 08:44	06/25/21 14:17	1
Arsenic	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:17	1
Barium	0.047		0.0025		mg/L		06/24/21 08:44	06/25/21 14:17	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:17	1
Boron	1.3		0.25		mg/L		06/24/21 08:44	06/28/21 13:26	5
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:17	1
Calcium	60		0.20		mg/L		06/24/21 08:44	06/25/21 14:17	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 14:17	1
Cobalt	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:17	1
Lead	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:17	1
Molybdenum	0.022		0.0050		mg/L		06/24/21 08:44	06/25/21 14:17	1
Selenium	<0.0025		0.0025		mg/L		06/24/21 08:44	06/25/21 14:17	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 14:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	390		10		mg/L			06/27/21 23:02	1
Chloride	14		2.0		mg/L			07/14/21 13:28	1
Fluoride	0.77		0.10		mg/L			07/15/21 17:55	1
Sulfate	70		25		mg/L			07/14/21 14:02	5

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	46.20				ft			06/23/21 11:20	1
Depth to Water (ft from MP)	48.98				ft			06/23/21 11:20	1
Elevation of well (ft from MP)	580.94				ft			06/23/21 11:20	1
Field pH	7.46				SU			06/23/21 11:20	1
Field Temperature	63.5				Degrees F			06/23/21 11:20	1
Ground Water Elevation	531.96				ft			06/23/21 11:20	1
Specific Conductance	677				umhos/cm			06/23/21 11:20	1
Well bottom elevation	442.28				ft			06/23/21 11:20	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: R08S**

**Lab Sample ID: 500-201190-8**

Date Collected: 06/23/21 14:05

Matrix: Water

Date Received: 06/23/21 15:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.15		0.010		mg/L		06/24/21 08:44	06/29/21 14:37	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		06/24/21 08:44	06/25/21 14:21	1
Arsenic	0.0011		0.0010		mg/L		06/24/21 08:44	06/25/21 14:21	1
Barium	0.042		0.0025		mg/L		06/24/21 08:44	06/25/21 14:21	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:21	1
Boron	7.6		1.0		mg/L		06/24/21 08:44	06/28/21 13:29	20
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:21	1
Calcium	140		0.20		mg/L		06/24/21 08:44	06/25/21 14:21	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 14:21	1
Cobalt	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 14:21	1
Lead	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 14:21	1
Molybdenum	0.37		0.0050		mg/L		06/24/21 08:44	06/25/21 14:21	1
Selenium	0.011		0.0025		mg/L		06/24/21 08:44	06/25/21 14:21	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 14:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	810		10		mg/L			06/27/21 23:05	1
Chloride	79		10		mg/L			07/14/21 13:38	5
Fluoride	0.16		0.10		mg/L			07/15/21 17:58	1
Sulfate	430		100		mg/L			07/14/21 14:10	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	66.59				ft			06/23/21 14:05	1
Depth to Water (ft from MP)	69.14				ft			06/23/21 14:05	1
Elevation of well (ft from MP)	578.51				ft			06/23/21 14:05	1
Field pH	8.07				SU			06/23/21 14:05	1
Field Temperature	56.5				Degrees F			06/23/21 14:05	1
Ground Water Elevation	509.37				ft			06/23/21 14:05	1
Specific Conductance	1076				umhos/cm			06/23/21 14:05	1
Well bottom elevation	453.08				ft			06/23/21 14:05	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G48S**

**Lab Sample ID: 500-201190-9**

Date Collected: 06/24/21 08:48

Matrix: Water

Date Received: 06/24/21 14:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.032		0.010		mg/L		06/30/21 08:25	06/30/21 20:31	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		06/30/21 08:25	06/30/21 18:24	1
Arsenic	0.0026		0.0010		mg/L		06/30/21 08:25	06/30/21 18:24	1
Barium	0.035		0.0025		mg/L		06/30/21 08:25	06/30/21 18:24	1
Beryllium	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:24	1
Boron	4.3	B	1.0		mg/L		06/30/21 08:25	07/01/21 13:38	20
Cadmium	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 18:24	1
Calcium	96		0.20		mg/L		06/30/21 08:25	06/30/21 18:24	1
Chromium	<0.0050		0.0050		mg/L		06/30/21 08:25	06/30/21 18:24	1
Cobalt	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:24	1
Lead	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 18:24	1
Molybdenum	0.26		0.0050		mg/L		06/30/21 08:25	06/30/21 18:24	1
Selenium	<0.0025		0.0025		mg/L		06/30/21 08:25	06/30/21 18:24	1
Thallium	<0.0020		0.0020		mg/L		06/30/21 08:25	06/30/21 18:24	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/30/21 08:07	1
Chloride	96		10		mg/L			07/14/21 13:38	5
Fluoride	0.71		0.10		mg/L			07/15/21 18:01	1
Sulfate	480		100		mg/L			07/14/21 14:10	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	102.37				ft			06/24/21 08:48	1
Depth to Water (ft from MP)	104.82				ft			06/24/21 08:48	1
Elevation of well (ft from MP)	620.74				ft			06/24/21 08:48	1
Field pH	7.27				SU			06/24/21 08:48	1
Field Temperature	59.4				Degrees F			06/24/21 08:48	1
Ground Water Elevation	515.92				ft			06/24/21 08:48	1
Specific Conductance	1610				umhos/cm			06/24/21 08:48	1
Well bottom elevation	468.32				ft			06/24/21 08:48	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G47S**

**Lab Sample ID: 500-201190-10**

Date Collected: 06/24/21 10:15

Matrix: Water

Date Received: 06/24/21 14:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.050		0.010		mg/L		06/30/21 08:25	06/30/21 20:35	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		06/30/21 08:25	06/30/21 18:28	1
Arsenic	0.040		0.0010		mg/L		06/30/21 08:25	06/30/21 18:28	1
Barium	0.013		0.0025		mg/L		06/30/21 08:25	06/30/21 18:28	1
Beryllium	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:28	1
Boron	6.1	B	1.0		mg/L		06/30/21 08:25	07/01/21 13:45	20
Cadmium	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 18:28	1
Calcium	12		0.20		mg/L		06/30/21 08:25	06/30/21 18:28	1
Chromium	<0.0050		0.0050		mg/L		06/30/21 08:25	06/30/21 18:28	1
Cobalt	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:28	1
Lead	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 18:28	1
Molybdenum	0.48		0.0050		mg/L		06/30/21 08:25	06/30/21 18:28	1
Selenium	0.0027		0.0025		mg/L		06/30/21 08:25	06/30/21 18:28	1
Thallium	<0.0020		0.0020		mg/L		06/30/21 08:25	06/30/21 18:28	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/30/21 08:14	1
Chloride	110		10		mg/L			07/14/21 13:38	5
Fluoride	0.66		0.10		mg/L			07/15/21 18:04	1
Sulfate	470		100		mg/L			07/14/21 14:10	20

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	94.88				ft			06/24/21 10:15	1
Depth to Water (ft from MP)	97.38				ft			06/24/21 10:15	1
Elevation of well (ft from MP)	612.04				ft			06/24/21 10:15	1
Field pH	8.68				SU			06/24/21 10:15	1
Field Temperature	57.6				Degrees F			06/24/21 10:15	1
Ground Water Elevation	514.66				ft			06/24/21 10:15	1
Specific Conductance	1580				umhos/cm			06/24/21 10:15	1
Well bottom elevation	459.84				ft			06/24/21 10:15	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G33S**

**Lab Sample ID: 500-201190-11**

Date Collected: 06/24/21 12:11

Matrix: Water

Date Received: 06/24/21 14:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.041		0.010		mg/L		06/30/21 08:25	06/30/21 20:45	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		06/30/21 08:25	06/30/21 18:31	1
Arsenic	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:31	1
Barium	0.11		0.0025		mg/L		06/30/21 08:25	06/30/21 18:31	1
Beryllium	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:31	1
Boron	1.3	B	0.25		mg/L		06/30/21 08:25	07/01/21 13:49	5
Cadmium	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 18:31	1
Calcium	55		0.20		mg/L		06/30/21 08:25	06/30/21 18:31	1
Chromium	<0.0050		0.0050		mg/L		06/30/21 08:25	06/30/21 18:31	1
Cobalt	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:31	1
Lead	0.0029		0.00050		mg/L		06/30/21 08:25	06/30/21 18:31	1
Molybdenum	<0.0050		0.0050		mg/L		06/30/21 08:25	06/30/21 18:31	1
Selenium	<0.0025		0.0025		mg/L		06/30/21 08:25	06/30/21 18:31	1
Thallium	<0.0020		0.0020		mg/L		06/30/21 08:25	06/30/21 18:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	430		10		mg/L			06/30/21 08:20	1
Chloride	10		2.0		mg/L			07/14/21 13:29	1
Fluoride	0.89		0.10		mg/L			07/15/21 18:08	1
Sulfate	69		25		mg/L			07/14/21 14:05	5

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	31.69				ft			06/24/21 12:11	1
Depth to Water (ft from MP)	33.42				ft			06/24/21 12:11	1
Elevation of well (ft from MP)	535.65				ft			06/24/21 12:11	1
Field pH	7.50				SU			06/24/21 12:11	1
Field Temperature	58.6				Degrees F			06/24/21 12:11	1
Ground Water Elevation	502.33				ft			06/24/21 12:11	1
Specific Conductance	636				umhos/cm			06/24/21 12:11	1
Well bottom elevation	452.72				ft			06/24/21 12:11	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: DUP**

**Lab Sample ID: 500-201190-12**

Date Collected: 06/24/21 12:11

Matrix: Water

Date Received: 06/24/21 14:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.035		0.010		mg/L		06/30/21 08:25	06/30/21 20:48	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		06/30/21 08:25	06/30/21 18:35	1
Arsenic	0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:35	1
Barium	0.077		0.0025		mg/L		06/30/21 08:25	06/30/21 18:35	1
Beryllium	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:35	1
Boron	0.92	B	0.25		mg/L		06/30/21 08:25	07/01/21 13:52	5
Cadmium	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 18:35	1
Calcium	56		0.20		mg/L		06/30/21 08:25	06/30/21 18:35	1
Chromium	<0.0050		0.0050		mg/L		06/30/21 08:25	06/30/21 18:35	1
Cobalt	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:35	1
Lead	0.0019		0.00050		mg/L		06/30/21 08:25	06/30/21 18:35	1
Molybdenum	<0.0050		0.0050		mg/L		06/30/21 08:25	06/30/21 18:35	1
Selenium	<0.0025		0.0025		mg/L		06/30/21 08:25	06/30/21 18:35	1
Thallium	<0.0020		0.0020		mg/L		06/30/21 08:25	06/30/21 18:35	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	340		10		mg/L			06/30/21 08:22	1
Chloride	13		2.0		mg/L			07/14/21 13:29	1
Fluoride	0.72		0.10		mg/L			07/15/21 18:10	1
Sulfate	69		25		mg/L			07/14/21 14:05	5

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	31.69				ft			06/24/21 12:11	1
Depth to Water (ft from MP)	33.42				ft			06/24/21 12:11	1
Elevation of well (ft from MP)	535.65				ft			06/24/21 12:11	1
Field pH	7.50				SU			06/24/21 12:11	1
Field Temperature	58.6				Degrees F			06/24/21 12:11	1
Ground Water Elevation	502.23				ft			06/24/21 12:11	1
Specific Conductance	636				umhos/cm			06/24/21 12:11	1
Well bottom elevation	452.72				ft			06/24/21 12:11	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T04S**

**Lab Sample ID: 500-201190-13**

Date Collected: 06/28/21 09:00

Matrix: Water

Date Received: 06/28/21 15:45

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	0				ft			06/28/21 09:00	1
Depth to Water (ft from MP)	0				ft			06/28/21 09:00	1
Elevation of well (ft from MP)	631.35				ft			06/28/21 09:00	1
Field pH	0				SU			06/28/21 09:00	1
Field Temperature	0				Degrees F			06/28/21 09:00	1
Ground Water Elevation	0				ft			06/28/21 09:00	1
Specific Conductance	0				umhos/cm			06/28/21 09:00	1
Well bottom elevation	458.07				ft			06/28/21 09:00	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T01S**

**Lab Sample ID: 500-201190-14**

Date Collected: 06/28/21 10:01

Matrix: Water

Date Received: 06/28/21 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.022		0.010		mg/L		06/30/21 08:25	06/30/21 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		06/30/21 08:25	06/30/21 18:38	1
Arsenic	0.014		0.0010		mg/L		06/30/21 08:25	06/30/21 18:38	1
Barium	0.094		0.0025		mg/L		06/30/21 08:25	06/30/21 18:38	1
Beryllium	<1.0		1.0		ug/L		06/30/21 08:25	06/30/21 18:38	1
Boron	4.6	B	0.50		mg/L		06/30/21 08:25	07/01/21 13:56	10
Cadmium	<0.50		0.50		ug/L		06/30/21 08:25	06/30/21 18:38	1
Calcium	51		0.20		mg/L		06/30/21 08:25	06/30/21 18:38	1
Chromium	17		5.0		ug/L		06/30/21 08:25	06/30/21 18:38	1
Cobalt	0.0052		0.0010		mg/L		06/30/21 08:25	06/30/21 18:38	1
Lead	0.0056		0.00050		mg/L		06/30/21 08:25	06/30/21 18:38	1
Molybdenum	0.31		0.0050		mg/L		06/30/21 08:25	06/30/21 18:38	1
Selenium	<0.0025		0.0025		mg/L		06/30/21 08:25	06/30/21 18:38	1
Thallium	<2.0		2.0		ug/L		06/30/21 08:25	06/30/21 18:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10		mg/L			06/30/21 08:25	1
Chloride	100		10		mg/L			07/14/21 13:39	5
Fluoride	1.2		0.10		mg/L			07/15/21 18:13	1
Sulfate	430		100		mg/L			07/14/21 14:12	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	117.96				ft			06/28/21 10:01	1
Depth to Water (ft from MP)	120.44				ft			06/28/21 10:01	1
Elevation of well (ft from MP)	621.71				ft			06/28/21 10:01	1
Field pH	7.63				SU			06/28/21 10:01	1
Field Temperature	77.0				Degrees F			06/28/21 10:01	1
Ground Water Elevation	501.27				ft			06/28/21 10:01	1
Specific Conductance	1374				umhos/cm			06/28/21 10:01	1
Well bottom elevation	451.46				ft			06/28/21 10:01	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: R32S**

**Lab Sample ID: 500-201190-15**

Date Collected: 06/28/21 13:39

Matrix: Water

Date Received: 06/28/21 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.071		0.010		mg/L		06/30/21 08:25	06/30/21 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		06/30/21 08:25	06/30/21 18:42	1
Arsenic	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:42	1
Barium	0.036		0.0025		mg/L		06/30/21 08:25	06/30/21 18:42	1
Beryllium	<1.0		1.0		ug/L		06/30/21 08:25	06/30/21 18:42	1
Boron	4.0	B	0.50		mg/L		06/30/21 08:25	07/01/21 13:59	10
Cadmium	<0.50		0.50		ug/L		06/30/21 08:25	06/30/21 18:42	1
Calcium	130		0.20		mg/L		06/30/21 08:25	06/30/21 18:42	1
Chromium	<5.0		5.0		ug/L		06/30/21 08:25	06/30/21 18:42	1
Cobalt	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:42	1
Lead	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 18:42	1
Molybdenum	0.53		0.0050		mg/L		06/30/21 08:25	06/30/21 18:42	1
Selenium	<0.0025		0.0025		mg/L		06/30/21 08:25	06/30/21 18:42	1
Thallium	<2.0		2.0		ug/L		06/30/21 08:25	06/30/21 18:42	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	790		10		mg/L			06/30/21 08:27	1
Chloride	56		10		mg/L			07/14/21 13:39	5
Fluoride	0.30		0.10		mg/L			07/15/21 18:16	1
Sulfate	430		100		mg/L			07/14/21 14:12	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	17.65				ft			06/28/21 13:39	1
Depth to Water (ft from MP)	19.68				ft			06/28/21 13:39	1
Elevation of well (ft from MP)	536.91				ft			06/28/21 13:39	1
Field pH	7.16				SU			06/28/21 13:39	1
Field Temperature	55.8				Degrees F			06/28/21 13:39	1
Ground Water Elevation	517.23				ft			06/28/21 13:39	1
Specific Conductance	952				umhos/cm			06/28/21 13:39	1
Well bottom elevation	457.84				ft			06/28/21 13:39	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G45S**

**Lab Sample ID: 500-201190-16**

Date Collected: 06/28/21 14:33

Matrix: Water

Date Received: 06/28/21 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.031		0.010		mg/L		06/30/21 08:25	06/30/21 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		06/30/21 08:25	06/30/21 18:45	1
Arsenic	0.010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:45	1
Barium	0.034		0.0025		mg/L		06/30/21 08:25	06/30/21 18:45	1
Beryllium	<1.0		1.0		ug/L		06/30/21 08:25	06/30/21 18:45	1
Boron	0.44		0.050		mg/L		07/02/21 08:27	07/02/21 22:25	1
Cadmium	<0.50		0.50		ug/L		06/30/21 08:25	06/30/21 18:45	1
Calcium	91		0.20		mg/L		06/30/21 08:25	06/30/21 18:45	1
Chromium	<5.0		5.0		ug/L		06/30/21 08:25	06/30/21 18:45	1
Cobalt	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 18:45	1
Lead	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 18:45	1
Molybdenum	0.0083		0.0050		mg/L		06/30/21 08:25	06/30/21 18:45	1
Selenium	<0.0025		0.0025		mg/L		06/30/21 08:25	06/30/21 18:45	1
Thallium	<2.0		2.0		ug/L		06/30/21 08:25	06/30/21 18:45	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	680		10		mg/L			06/30/21 08:30	1
Chloride	110		10		mg/L			07/14/21 13:39	5
Fluoride	0.35		0.10		mg/L			07/15/21 18:20	1
Sulfate	150		25		mg/L			07/14/21 14:06	5

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	64.03				ft			06/28/21 14:33	1
Depth to Water (ft from MP)	67.00				ft			06/28/21 14:33	1
Elevation of well (ft from MP)	603.94				ft			06/28/21 14:33	1
Field pH	7.20				SU			06/28/21 14:33	1
Field Temperature	60.1				Degrees F			06/28/21 14:33	1
Ground Water Elevation	536.94				ft			06/28/21 14:33	1
Specific Conductance	1011				umhos/cm			06/28/21 14:33	1
Well bottom elevation	471.05				ft			06/28/21 14:33	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-201190-17**

Date Collected: 06/30/21 09:27

Matrix: Water

Date Received: 06/30/21 14:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.026		0.010		mg/L		07/01/21 09:27	07/01/21 19:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		07/01/21 09:27	07/01/21 19:56	1
Arsenic	<0.0010		0.0010		mg/L		07/01/21 09:27	07/01/21 19:56	1
Barium	0.058		0.0025		mg/L		07/01/21 09:27	07/02/21 12:49	1
Beryllium	<1.0	^1+	1.0		ug/L		07/01/21 09:27	07/02/21 12:49	1
Boron	1.9	B	0.25		mg/L		07/01/21 09:27	07/02/21 11:45	5
Cadmium	<0.50		0.50		ug/L		07/01/21 09:27	07/01/21 19:56	1
Calcium	120		0.20		mg/L		07/01/21 09:27	07/02/21 12:49	1
Chromium	<5.0		5.0		ug/L		07/01/21 09:27	07/01/21 19:56	1
Cobalt	<0.0010		0.0010		mg/L		07/01/21 09:27	07/01/21 19:56	1
Lead	<0.00050		0.00050		mg/L		07/01/21 09:27	07/01/21 19:56	1
Molybdenum	0.22		0.0050		mg/L		07/01/21 09:27	07/01/21 19:56	1
Selenium	<0.0025		0.0025		mg/L		07/01/21 09:27	07/01/21 19:56	1
Thallium	<2.0		2.0		ug/L		07/01/21 09:27	07/01/21 19:56	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730		10		mg/L			07/02/21 02:36	1
Chloride	65		10		mg/L			07/14/21 13:40	5
Fluoride	0.21		0.10		mg/L			07/15/21 18:23	1
Sulfate	170		25		mg/L			07/14/21 14:06	5

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	75.23				ft			06/30/21 09:27	1
Depth to Water (ft from MP)	77.41				ft			06/30/21 09:27	1
Elevation of well (ft from MP)	586.49				ft			06/30/21 09:27	1
Field pH	7.00				SU			06/30/21 09:27	1
Field Temperature	57.4				Degrees F			06/30/21 09:27	1
Ground Water Elevation	509.08				ft			06/30/21 09:27	1
Specific Conductance	1109				umhos/cm			06/30/21 09:27	1
Well bottom elevation	455.11				ft			06/30/21 09:27	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G46S**

**Lab Sample ID: 500-201190-18**

Date Collected: 06/30/21 10:22

Matrix: Water

Date Received: 06/30/21 14:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.21		0.010		mg/L		07/01/21 09:27	07/01/21 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		07/01/21 09:27	07/01/21 20:13	1
Arsenic	0.044		0.0010		mg/L		07/01/21 09:27	07/01/21 20:13	1
Barium	0.050		0.0025		mg/L		07/01/21 09:27	07/02/21 13:06	1
Beryllium	<1.0	^1+	1.0		ug/L		07/01/21 09:27	07/02/21 13:06	1
Boron	15	B	5.0		mg/L		07/01/21 09:27	07/02/21 12:09	100
Cadmium	<0.50		0.50		ug/L		07/01/21 09:27	07/01/21 20:13	1
Calcium	120		0.20		mg/L		07/01/21 09:27	07/02/21 13:06	1
Chromium	<5.0		5.0		ug/L		07/01/21 09:27	07/01/21 20:13	1
Cobalt	<0.0010		0.0010		mg/L		07/01/21 09:27	07/01/21 20:13	1
Lead	<0.00050		0.00050		mg/L		07/01/21 09:27	07/01/21 20:13	1
Molybdenum	1.6		0.0050		mg/L		07/01/21 09:27	07/01/21 20:13	1
Selenium	<0.0025		0.0025		mg/L		07/01/21 09:27	07/01/21 20:13	1
Thallium	<2.0		2.0		ug/L		07/01/21 09:27	07/01/21 20:13	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			07/02/21 02:43	1
Chloride	67		10		mg/L			07/14/21 13:40	5
Fluoride	0.30		0.10		mg/L			07/15/21 18:36	1
Sulfate	590		100		mg/L			07/14/21 14:13	20

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	95.78				ft			06/30/21 10:22	1
Depth to Water (ft from MP)	98.48				ft			06/30/21 10:22	1
Elevation of well (ft from MP)	601.34				ft			06/30/21 10:22	1
Field pH	7.40				SU			06/30/21 10:22	1
Field Temperature	58.5				Degrees F			06/30/21 10:22	1
Ground Water Elevation	502.86				ft			06/30/21 10:22	1
Specific Conductance	1474				umhos/cm			06/30/21 10:22	1
Well bottom elevation	453.62				ft			06/30/21 10:22	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G30S**

**Lab Sample ID: 500-201190-19**

Date Collected: 06/30/21 11:20

Matrix: Water

Date Received: 06/30/21 14:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.024		0.010		mg/L		07/01/21 09:27	07/01/21 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		07/01/21 09:27	07/01/21 20:16	1
Arsenic	0.017		0.0010		mg/L		07/01/21 09:27	07/01/21 20:16	1
Barium	0.048		0.0025		mg/L		07/01/21 09:27	07/02/21 13:09	1
Beryllium	<1.0	^1+	1.0		ug/L		07/01/21 09:27	07/02/21 13:09	1
Boron	5.9	B	1.0		mg/L		07/01/21 09:27	07/02/21 12:13	20
Cadmium	<0.50		0.50		ug/L		07/01/21 09:27	07/01/21 20:16	1
Calcium	61		0.20		mg/L		07/01/21 09:27	07/02/21 13:09	1
Chromium	<5.0		5.0		ug/L		07/01/21 09:27	07/01/21 20:16	1
Cobalt	<0.0010		0.0010		mg/L		07/01/21 09:27	07/01/21 20:16	1
Lead	<0.00050		0.00050		mg/L		07/01/21 09:27	07/01/21 20:16	1
Molybdenum	0.017		0.0050		mg/L		07/01/21 09:27	07/01/21 20:16	1
Selenium	<0.0025		0.0025		mg/L		07/01/21 09:27	07/01/21 20:16	1
Thallium	<2.0		2.0		ug/L		07/01/21 09:27	07/01/21 20:16	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			07/02/21 02:49	1
Chloride	200		10		mg/L			07/14/21 13:40	5
Fluoride	1.1		0.10		mg/L			07/15/21 18:39	1
Sulfate	470		100		mg/L			07/14/21 14:13	20

### Method: Field Sampling - Field Sampling

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	-0.28				ft			06/30/21 11:20	1
Depth to Water (ft from MP)	2.03				ft			06/30/21 11:20	1
Elevation of well (ft from MP)	524.69				ft			06/30/21 11:20	1
Field pH	7.88				SU			06/30/21 11:20	1
Field Temperature	61.9				Degrees F			06/30/21 11:20	1
Ground Water Elevation	522.66				ft			06/30/21 11:20	1
Specific Conductance	1780				umhos/cm			06/30/21 11:20	1
Well bottom elevation	462.58				ft			06/30/21 11:20	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G31S**

**Lab Sample ID: 500-201190-20**

Date Collected: 06/30/21 13:25

Matrix: Water

Date Received: 06/30/21 14:28

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.097		0.010		mg/L		07/01/21 09:27	07/01/21 19:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		07/01/21 09:27	07/01/21 20:20	1
Arsenic	0.0041		0.0010		mg/L		07/01/21 09:27	07/01/21 20:20	1
Barium	0.049		0.0025		mg/L		07/01/21 09:27	07/02/21 13:13	1
Beryllium	<1.0	^1+	1.0		ug/L		07/01/21 09:27	07/02/21 13:13	1
Boron	4.6	B	1.0		mg/L		07/01/21 09:27	07/02/21 12:16	20
Cadmium	<0.50		0.50		ug/L		07/01/21 09:27	07/01/21 20:20	1
Calcium	150		0.20		mg/L		07/01/21 09:27	07/02/21 13:13	1
Chromium	<5.0		5.0		ug/L		07/01/21 09:27	07/01/21 20:20	1
Cobalt	<0.0010		0.0010		mg/L		07/01/21 09:27	07/01/21 20:20	1
Lead	<0.00050		0.00050		mg/L		07/01/21 09:27	07/01/21 20:20	1
Molybdenum	0.70		0.0050		mg/L		07/01/21 09:27	07/01/21 20:20	1
Selenium	<0.0025		0.0025		mg/L		07/01/21 09:27	07/01/21 20:20	1
Thallium	<2.0		2.0		ug/L		07/01/21 09:27	07/01/21 20:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			07/02/21 02:51	1
Chloride	180		10		mg/L			07/14/21 13:40	5
Fluoride	0.25		0.10		mg/L			07/15/21 18:42	1
Sulfate	460		100		mg/L			07/14/21 14:17	20

**Method: Field Sampling - Field Sampling**

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water from land surface	21.87				ft			06/30/21 13:25	1
Depth to Water (ft from MP)	24.45				ft			06/30/21 13:25	1
Elevation of well (ft from MP)	535.77				ft			06/30/21 13:25	1
Field pH	7.29				SU			06/30/21 13:25	1
Field Temperature	61.0				Degrees F			06/30/21 13:25	1
Ground Water Elevation	511.32				ft			06/30/21 13:25	1
Specific Conductance	1700				umhos/cm			06/30/21 13:25	1
Well bottom elevation	453.36				ft			06/30/21 13:25	1

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## 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.
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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Metals

### Prep Batch: 605952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total Recoverable	Water	3005A	
500-201190-2	T08S	Total Recoverable	Water	3005A	
500-201190-3	T03S	Total Recoverable	Water	3005A	
500-201190-4	T06S	Total Recoverable	Water	3005A	
500-201190-5	T05S	Total Recoverable	Water	3005A	
500-201190-6	T09S	Total Recoverable	Water	3005A	
500-201190-7	G20S	Total Recoverable	Water	3005A	
500-201190-8	R08S	Total Recoverable	Water	3005A	
MB 500-605952/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-605952/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-201190-1 MS	T02S	Total Recoverable	Water	3005A	
500-201190-1 MSD	T02S	Total Recoverable	Water	3005A	
500-201190-1 DU	T02S	Total Recoverable	Water	3005A	

### Analysis Batch: 606286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total Recoverable	Water	6020A	605952
500-201190-2	T08S	Total Recoverable	Water	6020A	605952
500-201190-3	T03S	Total Recoverable	Water	6020A	605952
500-201190-4	T06S	Total Recoverable	Water	6020A	605952
500-201190-5	T05S	Total Recoverable	Water	6020A	605952
500-201190-6	T09S	Total Recoverable	Water	6020A	605952
500-201190-7	G20S	Total Recoverable	Water	6020A	605952
500-201190-8	R08S	Total Recoverable	Water	6020A	605952
MB 500-605952/1-A	Method Blank	Total Recoverable	Water	6020A	605952
LCS 500-605952/2-A	Lab Control Sample	Total Recoverable	Water	6020A	605952
500-201190-1 MS	T02S	Total Recoverable	Water	6020A	605952
500-201190-1 MSD	T02S	Total Recoverable	Water	6020A	605952
500-201190-1 DU	T02S	Total Recoverable	Water	6020A	605952

### Analysis Batch: 606559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total Recoverable	Water	6020A	605952
500-201190-2	T08S	Total Recoverable	Water	6020A	605952
500-201190-3	T03S	Total Recoverable	Water	6020A	605952
500-201190-4	T06S	Total Recoverable	Water	6020A	605952
500-201190-5	T05S	Total Recoverable	Water	6020A	605952
500-201190-6	T09S	Total Recoverable	Water	6020A	605952
500-201190-7	G20S	Total Recoverable	Water	6020A	605952
500-201190-8	R08S	Total Recoverable	Water	6020A	605952
MB 500-605952/1-A	Method Blank	Total Recoverable	Water	6020A	605952
LCS 500-605952/2-A	Lab Control Sample	Total Recoverable	Water	6020A	605952
500-201190-1 MS	T02S	Total Recoverable	Water	6020A	605952
500-201190-1 MSD	T02S	Total Recoverable	Water	6020A	605952
500-201190-1 DU	T02S	Total Recoverable	Water	6020A	605952

### Analysis Batch: 606889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total Recoverable	Water	6010C	605952
500-201190-2	T08S	Total Recoverable	Water	6010C	605952
500-201190-3	T03S	Total Recoverable	Water	6010C	605952

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Metals (Continued)

### Analysis Batch: 606889 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-4	T06S	Total Recoverable	Water	6010C	605952
500-201190-5	T05S	Total Recoverable	Water	6010C	605952
500-201190-6	T09S	Total Recoverable	Water	6010C	605952
500-201190-7	G20S	Total Recoverable	Water	6010C	605952
500-201190-8	R08S	Total Recoverable	Water	6010C	605952
MB 500-605952/1-A	Method Blank	Total Recoverable	Water	6010C	605952
LCS 500-605952/2-A	Lab Control Sample	Total Recoverable	Water	6010C	605952
500-201190-1 MS	T02S	Total Recoverable	Water	6010C	605952
500-201190-1 MSD	T02S	Total Recoverable	Water	6010C	605952
500-201190-1 DU	T02S	Total Recoverable	Water	6010C	605952

### Prep Batch: 606931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-9	G48S	Total Recoverable	Water	3005A	
500-201190-10	G47S	Total Recoverable	Water	3005A	
500-201190-11	G33S	Total Recoverable	Water	3005A	
500-201190-12	DUP	Total Recoverable	Water	3005A	
500-201190-14	T01S	Total Recoverable	Water	3005A	
500-201190-15	R32S	Total Recoverable	Water	3005A	
500-201190-16	G45S	Total Recoverable	Water	3005A	
MB 500-606931/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-606931/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 607116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-9	G48S	Total Recoverable	Water	6010C	606931
500-201190-10	G47S	Total Recoverable	Water	6010C	606931
500-201190-11	G33S	Total Recoverable	Water	6010C	606931
500-201190-12	DUP	Total Recoverable	Water	6010C	606931
500-201190-14	T01S	Total Recoverable	Water	6010C	606931
500-201190-15	R32S	Total Recoverable	Water	6010C	606931
500-201190-16	G45S	Total Recoverable	Water	6010C	606931
MB 500-606931/1-A	Method Blank	Total Recoverable	Water	6010C	606931
LCS 500-606931/2-A	Lab Control Sample	Total Recoverable	Water	6010C	606931

### Prep Batch: 607199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-17	G44S	Total Recoverable	Water	3005A	
500-201190-18	G46S	Total Recoverable	Water	3005A	
500-201190-19	G30S	Total Recoverable	Water	3005A	
500-201190-20	G31S	Total Recoverable	Water	3005A	
MB 500-607199/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-607199/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-201190-17 MS	G44S	Total Recoverable	Water	3005A	
500-201190-17 MSD	G44S	Total Recoverable	Water	3005A	
500-201190-17 DU	G44S	Total Recoverable	Water	3005A	

### Analysis Batch: 607209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-9	G48S	Total Recoverable	Water	6020A	606931
500-201190-10	G47S	Total Recoverable	Water	6020A	606931

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Metals (Continued)

### Analysis Batch: 607209 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-11	G33S	Total Recoverable	Water	6020A	606931
500-201190-12	DUP	Total Recoverable	Water	6020A	606931
500-201190-14	T01S	Total Recoverable	Water	6020A	606931
500-201190-15	R32S	Total Recoverable	Water	6020A	606931
500-201190-16	G45S	Total Recoverable	Water	6020A	606931
MB 500-606931/1-A	Method Blank	Total Recoverable	Water	6020A	606931
LCS 500-606931/2-A	Lab Control Sample	Total Recoverable	Water	6020A	606931

### Analysis Batch: 607420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-17	G44S	Total Recoverable	Water	6010C	607199
500-201190-18	G46S	Total Recoverable	Water	6010C	607199
500-201190-19	G30S	Total Recoverable	Water	6010C	607199
500-201190-20	G31S	Total Recoverable	Water	6010C	607199
MB 500-607199/1-A	Method Blank	Total Recoverable	Water	6010C	607199
LCS 500-607199/2-A	Lab Control Sample	Total Recoverable	Water	6010C	607199
500-201190-17 MS	G44S	Total Recoverable	Water	6010C	607199
500-201190-17 MSD	G44S	Total Recoverable	Water	6010C	607199
500-201190-17 DU	G44S	Total Recoverable	Water	6010C	607199

### Prep Batch: 607459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-16	G45S	Total Recoverable	Water	3005A	
MB 500-607459/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-607459/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 607492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-9	G48S	Total Recoverable	Water	6020A	606931
500-201190-10	G47S	Total Recoverable	Water	6020A	606931
500-201190-11	G33S	Total Recoverable	Water	6020A	606931
500-201190-12	DUP	Total Recoverable	Water	6020A	606931
500-201190-14	T01S	Total Recoverable	Water	6020A	606931
500-201190-15	R32S	Total Recoverable	Water	6020A	606931
MB 500-606931/1-A	Method Blank	Total Recoverable	Water	6020A	606931
LCS 500-606931/2-A	Lab Control Sample	Total Recoverable	Water	6020A	606931

### Analysis Batch: 607502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-17	G44S	Total Recoverable	Water	6020A	607199
500-201190-18	G46S	Total Recoverable	Water	6020A	607199
500-201190-19	G30S	Total Recoverable	Water	6020A	607199
500-201190-20	G31S	Total Recoverable	Water	6020A	607199
MB 500-607199/1-A	Method Blank	Total Recoverable	Water	6020A	607199
LCS 500-607199/2-A	Lab Control Sample	Total Recoverable	Water	6020A	607199
500-201190-17 MS	G44S	Total Recoverable	Water	6020A	607199
500-201190-17 MSD	G44S	Total Recoverable	Water	6020A	607199
500-201190-17 DU	G44S	Total Recoverable	Water	6020A	607199

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Metals

### Analysis Batch: 607568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-17	G44S	Total Recoverable	Water	6020A	607199
500-201190-17	G44S	Total Recoverable	Water	6020A	607199
500-201190-18	G46S	Total Recoverable	Water	6020A	607199
500-201190-18	G46S	Total Recoverable	Water	6020A	607199
500-201190-19	G30S	Total Recoverable	Water	6020A	607199
500-201190-19	G30S	Total Recoverable	Water	6020A	607199
500-201190-20	G31S	Total Recoverable	Water	6020A	607199
500-201190-20	G31S	Total Recoverable	Water	6020A	607199
MB 500-607199/1-A	Method Blank	Total Recoverable	Water	6020A	607199
LCS 500-607199/2-A	Lab Control Sample	Total Recoverable	Water	6020A	607199
500-201190-17 MS	G44S	Total Recoverable	Water	6020A	607199
500-201190-17 MS	G44S	Total Recoverable	Water	6020A	607199
500-201190-17 MSD	G44S	Total Recoverable	Water	6020A	607199
500-201190-17 MSD	G44S	Total Recoverable	Water	6020A	607199
500-201190-17 DU	G44S	Total Recoverable	Water	6020A	607199
500-201190-17 DU	G44S	Total Recoverable	Water	6020A	607199

### Analysis Batch: 608130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-16	G45S	Total Recoverable	Water	6020A	607459
MB 500-607459/1-A	Method Blank	Total Recoverable	Water	6020A	607459
LCS 500-607459/2-A	Lab Control Sample	Total Recoverable	Water	6020A	607459

## General Chemistry

### Analysis Batch: 605343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total/NA	Water	SM 2540C	
500-201190-2	T08S	Total/NA	Water	SM 2540C	
MB 500-605343/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-605343/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 605609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-3	T03S	Total/NA	Water	SM 2540C	
500-201190-4	T06S	Total/NA	Water	SM 2540C	
500-201190-5	T05S	Total/NA	Water	SM 2540C	
MB 500-605609/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-605609/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 606400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-6	T09S	Total/NA	Water	SM 2540C	
500-201190-7	G20S	Total/NA	Water	SM 2540C	
500-201190-8	R08S	Total/NA	Water	SM 2540C	
MB 500-606400/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-606400/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 606953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-9	G48S	Total/NA	Water	SM 2540C	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## General Chemistry (Continued)

### Analysis Batch: 606953 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-10	G47S	Total/NA	Water	SM 2540C	
500-201190-11	G33S	Total/NA	Water	SM 2540C	
500-201190-12	DUP	Total/NA	Water	SM 2540C	
500-201190-14	T01S	Total/NA	Water	SM 2540C	
500-201190-15	R32S	Total/NA	Water	SM 2540C	
500-201190-16	G45S	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	
500-201190-9 MS	G48S	Total/NA	Water	SM 2540C	
500-201190-9 DU	G48S	Total/NA	Water	SM 2540C	
500-201190-10 DU	G47S	Total/NA	Water	SM 2540C	

### Analysis Batch: 607383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-17	G44S	Total/NA	Water	SM 2540C	
500-201190-18	G46S	Total/NA	Water	SM 2540C	
500-201190-19	G30S	Total/NA	Water	SM 2540C	
500-201190-20	G31S	Total/NA	Water	SM 2540C	
MB 500-607383/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-607383/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-201190-17 MS	G44S	Total/NA	Water	SM 2540C	
500-201190-17 DU	G44S	Total/NA	Water	SM 2540C	
500-201190-18 DU	G46S	Total/NA	Water	SM 2540C	

### Analysis Batch: 609663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total/NA	Water	SM 4500 F C	
500-201190-2	T08S	Total/NA	Water	SM 4500 F C	
500-201190-3	T03S	Total/NA	Water	SM 4500 F C	
500-201190-4	T06S	Total/NA	Water	SM 4500 F C	
500-201190-5	T05S	Total/NA	Water	SM 4500 F C	
500-201190-6	T09S	Total/NA	Water	SM 4500 F C	
500-201190-7	G20S	Total/NA	Water	SM 4500 F C	
500-201190-8	R08S	Total/NA	Water	SM 4500 F C	
500-201190-9	G48S	Total/NA	Water	SM 4500 F C	
500-201190-10	G47S	Total/NA	Water	SM 4500 F C	
500-201190-11	G33S	Total/NA	Water	SM 4500 F C	
500-201190-12	DUP	Total/NA	Water	SM 4500 F C	
500-201190-14	T01S	Total/NA	Water	SM 4500 F C	
500-201190-15	R32S	Total/NA	Water	SM 4500 F C	
500-201190-16	G45S	Total/NA	Water	SM 4500 F C	
500-201190-17	G44S	Total/NA	Water	SM 4500 F C	
500-201190-18	G46S	Total/NA	Water	SM 4500 F C	
500-201190-19	G30S	Total/NA	Water	SM 4500 F C	
500-201190-20	G31S	Total/NA	Water	SM 4500 F C	
MB 500-609663/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-609663/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-201190-1 MS	T02S	Total/NA	Water	SM 4500 F C	
500-201190-1 MSD	T02S	Total/NA	Water	SM 4500 F C	

# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## General Chemistry

### Analysis Batch: 609688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total/NA	Water	SM 4500 Cl- E	
500-201190-2	T08S	Total/NA	Water	SM 4500 Cl- E	
500-201190-3	T03S	Total/NA	Water	SM 4500 Cl- E	
500-201190-4	T06S	Total/NA	Water	SM 4500 Cl- E	
500-201190-5	T05S	Total/NA	Water	SM 4500 Cl- E	
500-201190-6	T09S	Total/NA	Water	SM 4500 Cl- E	
500-201190-7	G20S	Total/NA	Water	SM 4500 Cl- E	
500-201190-8	R08S	Total/NA	Water	SM 4500 Cl- E	
500-201190-9	G48S	Total/NA	Water	SM 4500 Cl- E	
500-201190-10	G47S	Total/NA	Water	SM 4500 Cl- E	
500-201190-11	G33S	Total/NA	Water	SM 4500 Cl- E	
500-201190-12	DUP	Total/NA	Water	SM 4500 Cl- E	
500-201190-14	T01S	Total/NA	Water	SM 4500 Cl- E	
500-201190-15	R32S	Total/NA	Water	SM 4500 Cl- E	
500-201190-16	G45S	Total/NA	Water	SM 4500 Cl- E	
500-201190-17	G44S	Total/NA	Water	SM 4500 Cl- E	
500-201190-18	G46S	Total/NA	Water	SM 4500 Cl- E	
500-201190-19	G30S	Total/NA	Water	SM 4500 Cl- E	
500-201190-20	G31S	Total/NA	Water	SM 4500 Cl- E	
MB 500-609688/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-609688/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-201190-1 MS	T02S	Total/NA	Water	SM 4500 Cl- E	
500-201190-1 MSD	T02S	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 609689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total/NA	Water	SM 4500 SO4 E	
500-201190-2	T08S	Total/NA	Water	SM 4500 SO4 E	
500-201190-3	T03S	Total/NA	Water	SM 4500 SO4 E	
500-201190-4	T06S	Total/NA	Water	SM 4500 SO4 E	
500-201190-5	T05S	Total/NA	Water	SM 4500 SO4 E	
500-201190-6	T09S	Total/NA	Water	SM 4500 SO4 E	
500-201190-7	G20S	Total/NA	Water	SM 4500 SO4 E	
500-201190-8	R08S	Total/NA	Water	SM 4500 SO4 E	
500-201190-9	G48S	Total/NA	Water	SM 4500 SO4 E	
500-201190-10	G47S	Total/NA	Water	SM 4500 SO4 E	
500-201190-11	G33S	Total/NA	Water	SM 4500 SO4 E	
500-201190-12	DUP	Total/NA	Water	SM 4500 SO4 E	
500-201190-14	T01S	Total/NA	Water	SM 4500 SO4 E	
500-201190-15	R32S	Total/NA	Water	SM 4500 SO4 E	
500-201190-16	G45S	Total/NA	Water	SM 4500 SO4 E	
500-201190-17	G44S	Total/NA	Water	SM 4500 SO4 E	
500-201190-18	G46S	Total/NA	Water	SM 4500 SO4 E	
500-201190-19	G30S	Total/NA	Water	SM 4500 SO4 E	
500-201190-20	G31S	Total/NA	Water	SM 4500 SO4 E	
MB 500-609689/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-609689/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-201190-1 MS	T02S	Total/NA	Water	SM 4500 SO4 E	
500-201190-1 MSD	T02S	Total/NA	Water	SM 4500 SO4 E	

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Field Service / Mobile Lab

### Analysis Batch: 605474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total/NA	Water	Field Sampling	
500-201190-2	T08S	Total/NA	Water	Field Sampling	
500-201190-3	T03S	Total/NA	Water	Field Sampling	
500-201190-4	T06S	Total/NA	Water	Field Sampling	
500-201190-5	T05S	Total/NA	Water	Field Sampling	
500-201190-6	T09S	Total/NA	Water	Field Sampling	
500-201190-7	G20S	Total/NA	Water	Field Sampling	
500-201190-8	R08S	Total/NA	Water	Field Sampling	
500-201190-9	G48S	Total/NA	Water	Field Sampling	
500-201190-10	G47S	Total/NA	Water	Field Sampling	
500-201190-11	G33S	Total/NA	Water	Field Sampling	
500-201190-12	DUP	Total/NA	Water	Field Sampling	
500-201190-13	T04S	Total/NA	Water	Field Sampling	
500-201190-14	T01S	Total/NA	Water	Field Sampling	
500-201190-15	R32S	Total/NA	Water	Field Sampling	
500-201190-16	G45S	Total/NA	Water	Field Sampling	
500-201190-17	G44S	Total/NA	Water	Field Sampling	
500-201190-18	G46S	Total/NA	Water	Field Sampling	
500-201190-19	G30S	Total/NA	Water	Field Sampling	
500-201190-20	G31S	Total/NA	Water	Field Sampling	

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-605952/1-A**  
**Matrix: Water**  
**Analysis Batch: 606889**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/24/21 08:44	06/29/21 13:38	1

**Lab Sample ID: LCS 500-605952/2-A**  
**Matrix: Water**  
**Analysis Batch: 606889**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.546		mg/L		109	80 - 120

**Lab Sample ID: 500-201190-1 MS**  
**Matrix: Water**  
**Analysis Batch: 606889**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.038		0.500	0.600		mg/L		112	75 - 125

**Lab Sample ID: 500-201190-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 606889**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	0.038		0.500	0.637		mg/L		120	75 - 125	6	20

**Lab Sample ID: 500-201190-1 DU**  
**Matrix: Water**  
**Analysis Batch: 606889**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.038		0.0373		mg/L		2	20

**Lab Sample ID: MB 500-606931/1-A**  
**Matrix: Water**  
**Analysis Batch: 607116**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 606931**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/30/21 08:25	06/30/21 20:24	1

**Lab Sample ID: LCS 500-606931/2-A**  
**Matrix: Water**  
**Analysis Batch: 607116**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 606931**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.533		mg/L		107	80 - 120

**Lab Sample ID: MB 500-607199/1-A**  
**Matrix: Water**  
**Analysis Batch: 607420**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/01/21 09:27	07/01/21 18:53	1

Euofins TestAmerica, Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: LCS 500-607199/2-A**  
**Matrix: Water**  
**Analysis Batch: 607420**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lithium	0.500	0.526		mg/L		105	80 - 120

**Lab Sample ID: 500-201190-17 MS**  
**Matrix: Water**  
**Analysis Batch: 607420**

**Client Sample ID: G44S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lithium	0.026		0.500	0.551		mg/L		105	75 - 125

**Lab Sample ID: 500-201190-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 607420**

**Client Sample ID: G44S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lithium	0.026		0.500	0.553		mg/L		105	75 - 125	0	20

**Lab Sample ID: 500-201190-17 DU**  
**Matrix: Water**  
**Analysis Batch: 607420**

**Client Sample ID: G44S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Lithium	0.026		0.0259		mg/L		0.2	20

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

**Lab Sample ID: MB 500-605952/1-A**  
**Matrix: Water**  
**Analysis Batch: 606286**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/24/21 08:44	06/25/21 13:29	1
Arsenic	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 13:29	1
Barium	<0.0025		0.0025		mg/L		06/24/21 08:44	06/25/21 13:29	1
Beryllium	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 13:29	1
Cadmium	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 13:29	1
Calcium	<0.20		0.20		mg/L		06/24/21 08:44	06/25/21 13:29	1
Chromium	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 13:29	1
Cobalt	<0.0010		0.0010		mg/L		06/24/21 08:44	06/25/21 13:29	1
Lead	<0.00050		0.00050		mg/L		06/24/21 08:44	06/25/21 13:29	1
Molybdenum	<0.0050		0.0050		mg/L		06/24/21 08:44	06/25/21 13:29	1
Selenium	<0.0025		0.0025		mg/L		06/24/21 08:44	06/25/21 13:29	1
Thallium	<0.0020		0.0020		mg/L		06/24/21 08:44	06/25/21 13:29	1

**Lab Sample ID: MB 500-605952/1-A**  
**Matrix: Water**  
**Analysis Batch: 606559**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		06/24/21 08:44	06/28/21 12:38	1

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# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: LCS 500-605952/2-A**  
**Matrix: Water**  
**Analysis Batch: 606286**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	0.500	0.523		mg/L		105	80 - 120	
Arsenic	0.100	0.0965		mg/L		96	80 - 120	
Barium	2.00	1.98		mg/L		99	80 - 120	
Beryllium	0.0500	0.0526		mg/L		105	80 - 120	
Cadmium	0.0500	0.0489		mg/L		98	80 - 120	
Calcium	10.0	10.5		mg/L		105	80 - 120	
Chromium	0.200	0.205		mg/L		103	80 - 120	
Cobalt	0.500	0.515		mg/L		103	80 - 120	
Lead	0.100	0.108		mg/L		108	80 - 120	
Molybdenum	1.00	0.984		mg/L		98	80 - 120	
Selenium	0.100	0.0999		mg/L		100	80 - 120	
Thallium	0.100	0.106		mg/L		106	80 - 120	

**Lab Sample ID: LCS 500-605952/2-A**  
**Matrix: Water**  
**Analysis Batch: 606559**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Boron	1.00	1.03		mg/L		103	80 - 120	

**Lab Sample ID: 500-201190-1 MS**  
**Matrix: Water**  
**Analysis Batch: 606286**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Antimony	<0.0030		0.500	0.542		mg/L		108	75 - 125	
Arsenic	0.0094		0.100	0.112		mg/L		103	75 - 125	
Barium	0.063		2.00	2.08		mg/L		101	75 - 125	
Beryllium	<0.0010		0.0500	0.0493		mg/L		99	75 - 125	
Cadmium	<0.00050		0.0500	0.0496		mg/L		99	75 - 125	
Calcium	49		10.0	58.3	4	mg/L		95	75 - 125	
Chromium	<0.0050		0.200	0.201		mg/L		100	75 - 125	
Cobalt	0.0029		0.500	0.507		mg/L		101	75 - 125	
Lead	0.00099		0.100	0.108		mg/L		107	75 - 125	
Molybdenum	0.50		1.00	1.52		mg/L		102	75 - 125	
Selenium	<0.0025		0.100	0.0982		mg/L		98	75 - 125	
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125	

**Lab Sample ID: 500-201190-1 MS**  
**Matrix: Water**  
**Analysis Batch: 606559**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Boron	5.9		1.00	6.51	4	mg/L		65	75 - 125	



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: 500-201190-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 606286**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result	Qualifier				Limits		
Antimony	<0.0030		0.500	0.567		mg/L		113	75 - 125	5	20
Arsenic	0.0094		0.100	0.119		mg/L		109	75 - 125	6	20
Barium	0.063		2.00	2.17		mg/L		105	75 - 125	4	20
Beryllium	<0.0010		0.0500	0.0528		mg/L		106	75 - 125	7	20
Cadmium	<0.00050		0.0500	0.0522		mg/L		104	75 - 125	5	20
Calcium	49		10.0	59.5	4	mg/L		107	75 - 125	2	20
Chromium	<0.0050		0.200	0.212		mg/L		106	75 - 125	5	20
Cobalt	0.0029		0.500	0.533		mg/L		106	75 - 125	5	20
Lead	0.00099		0.100	0.112		mg/L		111	75 - 125	4	20
Molybdenum	0.50		1.00	1.59		mg/L		110	75 - 125	5	20
Selenium	<0.0025		0.100	0.104		mg/L		104	75 - 125	6	20
Thallium	<0.0020		0.100	0.110		mg/L		110	75 - 125	6	20

**Lab Sample ID: 500-201190-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 606559**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result			Result	Qualifier				Limits		
Boron	5.9		1.00	6.82	4	mg/L		95	75 - 125	5	20

**Lab Sample ID: 500-201190-1 DU**  
**Matrix: Water**  
**Analysis Batch: 606286**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample	Sample Qualifier	DU Result	DU	Unit	D	RPD	Limit
	Result			Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0094		0.00944		mg/L		0.07	20
Barium	0.063		0.0639		mg/L		1	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	49		49.2		mg/L		0.8	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	0.0029		0.00282		mg/L		2	20
Lead	0.00099		0.000976		mg/L		1	20
Molybdenum	0.50		0.497		mg/L		0.3	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: 500-201190-1 DU**  
**Matrix: Water**  
**Analysis Batch: 606559**

**Client Sample ID: T02S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 605952**

Analyte	Sample	Sample Qualifier	DU	DU	Unit	D	RPD	Limit
	Result		Qualifier					
Boron	5.9		5.70		mg/L		3	20

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: MB 500-606931/1-A**  
**Matrix: Water**  
**Analysis Batch: 607209**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 606931**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/30/21 08:25	06/30/21 17:01	1
Arsenic	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 17:01	1
Barium	<0.0025		0.0025		mg/L		06/30/21 08:25	06/30/21 17:01	1
Beryllium	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 17:01	1
Cadmium	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 17:01	1
Calcium	<0.20		0.20		mg/L		06/30/21 08:25	06/30/21 17:01	1
Chromium	<0.0050		0.0050		mg/L		06/30/21 08:25	06/30/21 17:01	1
Cobalt	<0.0010		0.0010		mg/L		06/30/21 08:25	06/30/21 17:01	1
Lead	<0.00050		0.00050		mg/L		06/30/21 08:25	06/30/21 17:01	1
Molybdenum	<0.0050		0.0050		mg/L		06/30/21 08:25	06/30/21 17:01	1
Selenium	<0.0025		0.0025		mg/L		06/30/21 08:25	06/30/21 17:01	1
Thallium	<0.0020		0.0020		mg/L		06/30/21 08:25	06/30/21 17:01	1

**Lab Sample ID: MB 500-606931/1-A**  
**Matrix: Water**  
**Analysis Batch: 607492**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 606931**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.0782		0.050		mg/L		06/30/21 08:25	07/01/21 13:31	1

**Lab Sample ID: LCS 500-606931/2-A**  
**Matrix: Water**  
**Analysis Batch: 607209**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 606931**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0989		mg/L		99	80 - 120
Barium	2.00	1.97		mg/L		99	80 - 120
Beryllium	0.0500	0.0533		mg/L		107	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Calcium	10.0	9.67		mg/L		97	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Cobalt	0.500	0.529		mg/L		106	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120
Molybdenum	1.00	0.983		mg/L		98	80 - 120
Selenium	0.100	0.0985		mg/L		98	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

**Lab Sample ID: LCS 500-606931/2-A**  
**Matrix: Water**  
**Analysis Batch: 607492**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 606931**

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

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: MB 500-607199/1-A**  
**Matrix: Water**  
**Analysis Batch: 607502**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<3.0		3.0		ug/L		07/01/21 09:27	07/01/21 19:49	1
Arsenic	<0.0010		0.0010		mg/L		07/01/21 09:27	07/01/21 19:49	1
Cadmium	<0.50		0.50		ug/L		07/01/21 09:27	07/01/21 19:49	1
Chromium	<5.0		5.0		ug/L		07/01/21 09:27	07/01/21 19:49	1
Cobalt	<0.0010		0.0010		mg/L		07/01/21 09:27	07/01/21 19:49	1
Lead	<0.00050		0.00050		mg/L		07/01/21 09:27	07/01/21 19:49	1
Molybdenum	<0.0050		0.0050		mg/L		07/01/21 09:27	07/01/21 19:49	1
Selenium	<0.0025		0.0025		mg/L		07/01/21 09:27	07/01/21 19:49	1
Thallium	<2.0		2.0		ug/L		07/01/21 09:27	07/01/21 19:49	1

**Lab Sample ID: MB 500-607199/1-A**  
**Matrix: Water**  
**Analysis Batch: 607568**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0025		0.0025		mg/L		07/01/21 09:27	07/02/21 11:38	1
Beryllium	<1.0	^1+	1.0		ug/L		07/01/21 09:27	07/02/21 11:38	1
Boron	0.0748		0.050		mg/L		07/01/21 09:27	07/02/21 11:38	1
Calcium	<0.20		0.20		mg/L		07/01/21 09:27	07/02/21 11:38	1

**Lab Sample ID: LCS 500-607199/2-A**  
**Matrix: Water**  
**Analysis Batch: 607502**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	508		ug/L		102	80 - 120
Arsenic	0.100	0.0955		mg/L		95	80 - 120
Cadmium	50.0	48.4		ug/L		97	80 - 120
Chromium	200	198		ug/L		99	80 - 120
Cobalt	0.500	0.498		mg/L		100	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	0.952		mg/L		95	80 - 120
Selenium	0.100	0.0990		mg/L		99	80 - 120
Thallium	100	105		ug/L		105	80 - 120

**Lab Sample ID: LCS 500-607199/2-A**  
**Matrix: Water**  
**Analysis Batch: 607568**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.02		mg/L		101	80 - 120
Beryllium	50.0	49.4	^1+	ug/L		99	80 - 120
Boron	1.00	1.08		mg/L		108	80 - 120
Calcium	10.0	9.81		mg/L		98	80 - 120

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: 500-201190-17 MS**

**Matrix: Water**

**Analysis Batch: 607502**

**Client Sample ID: G44S**

**Prep Type: Total Recoverable**

**Prep Batch: 607199**

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result			Result	Qualifier					
Antimony	<3.0		500	524		ug/L		105		75 - 125
Arsenic	<0.0010		0.100	0.0995		mg/L		99		75 - 125
Cadmium	<0.50		50.0	48.2		ug/L		96		75 - 125
Chromium	<5.0		200	199		ug/L		99		75 - 125
Cobalt	<0.0010		0.500	0.485		mg/L		97		75 - 125
Lead	<0.00050		0.100	0.103		mg/L		103		75 - 125
Molybdenum	0.22		1.00	1.20		mg/L		98		75 - 125
Selenium	<0.0025		0.100	0.102		mg/L		102		75 - 125
Thallium	<2.0		100	104		ug/L		104		75 - 125

**Lab Sample ID: 500-201190-17 MS**

**Matrix: Water**

**Analysis Batch: 607568**

**Client Sample ID: G44S**

**Prep Type: Total Recoverable**

**Prep Batch: 607199**

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result			Result	Qualifier					
Boron	1.9	B	1.00	2.77		mg/L		92		75 - 125

**Lab Sample ID: 500-201190-17 MS**

**Matrix: Water**

**Analysis Batch: 607568**

**Client Sample ID: G44S**

**Prep Type: Total Recoverable**

**Prep Batch: 607199**

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result			Result	Qualifier					
Barium	0.058		2.00	2.05		mg/L		100		75 - 125
Beryllium	<1.0	^1+	50.0	50.1	^1+	ug/L		100		75 - 125
Calcium	120		10.0	142	4	mg/L		270		75 - 125

**Lab Sample ID: 500-201190-17 MSD**

**Matrix: Water**

**Analysis Batch: 607502**

**Client Sample ID: G44S**

**Prep Type: Total Recoverable**

**Prep Batch: 607199**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result			Result	Qualifier							
Antimony	<3.0		500	529		ug/L		106		75 - 125	1	20
Arsenic	<0.0010		0.100	0.100		mg/L		99		75 - 125	1	20
Cadmium	<0.50		50.0	48.9		ug/L		98		75 - 125	1	20
Chromium	<5.0		200	198		ug/L		99		75 - 125	1	20
Cobalt	<0.0010		0.500	0.487		mg/L		97		75 - 125	0	20
Lead	<0.00050		0.100	0.105		mg/L		105		75 - 125	2	20
Molybdenum	0.22		1.00	1.21		mg/L		100		75 - 125	1	20
Selenium	<0.0025		0.100	0.103		mg/L		103		75 - 125	1	20
Thallium	<2.0		100	105		ug/L		105		75 - 125	1	20

**Lab Sample ID: 500-201190-17 MSD**

**Matrix: Water**

**Analysis Batch: 607568**

**Client Sample ID: G44S**

**Prep Type: Total Recoverable**

**Prep Batch: 607199**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result			Result	Qualifier							
Boron	1.9	B	1.00	2.90		mg/L		104		75 - 125	4	20

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: 500-201190-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 607568**

**Client Sample ID: G44S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Barium	0.058		2.00	2.07		mg/L		101	75 - 125	1	20
Beryllium	<1.0	^1+	50.0	52.0	^1+	ug/L		104	75 - 125	4	20
Calcium	120		10.0	143	4	mg/L		280	75 - 125	1	20

**Lab Sample ID: 500-201190-17 DU**  
**Matrix: Water**  
**Analysis Batch: 607502**

**Client Sample ID: G44S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Antimony	<3.0		<3.0		ug/L		NC	20
Arsenic	<0.0010		0.00107		mg/L		NC	20
Cadmium	<0.50		<0.50		ug/L		NC	20
Chromium	<5.0		<5.0		ug/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.22		0.215		mg/L		0.7	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<2.0		<2.0		ug/L		NC	20

**Lab Sample ID: 500-201190-17 DU**  
**Matrix: Water**  
**Analysis Batch: 607568**

**Client Sample ID: G44S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Boron	1.9	B	1.89		mg/L		2	20

**Lab Sample ID: 500-201190-17 DU**  
**Matrix: Water**  
**Analysis Batch: 607568**

**Client Sample ID: G44S**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607199**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Barium	0.058		0.0668		mg/L		14	20
Beryllium	<1.0	^1+	<1.0	^1+	ug/L		NC	20
Calcium	120		134		mg/L		15	20

**Lab Sample ID: MB 500-607459/1-A**  
**Matrix: Water**  
**Analysis Batch: 608130**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607459**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		07/02/21 08:27	07/02/21 21:12	1

**Lab Sample ID: LCS 500-607459/2-A**  
**Matrix: Water**  
**Analysis Batch: 608130**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 607459**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Result
Boron	1.00	1.04		mg/L		104	80 - 120

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: MB 500-605343/1**  
**Matrix: Water**  
**Analysis Batch: 605343**

**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			06/22/21 03:19	1

**Lab Sample ID: LCS 500-605343/2**  
**Matrix: Water**  
**Analysis Batch: 605343**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	248		mg/L		99	80 - 120

**Lab Sample ID: MB 500-605609/1**  
**Matrix: Water**  
**Analysis Batch: 605609**

**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			06/23/21 05:07	1

**Lab Sample ID: LCS 500-605609/2**  
**Matrix: Water**  
**Analysis Batch: 605609**

**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	234		mg/L		94	80 - 120

**Lab Sample ID: MB 500-606400/1**  
**Matrix: Water**  
**Analysis Batch: 606400**

**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			06/27/21 22:34	1

**Lab Sample ID: LCS 500-606400/2**  
**Matrix: Water**  
**Analysis Batch: 606400**

**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	244		mg/L		98	80 - 120

**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

Euofins TestAmerica, Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: 500-201190-9 MS**  
**Matrix: Water**  
**Analysis Batch: 606953**

**Client Sample ID: G48S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1100		250	1380	4	mg/L		124	75 - 125

**Lab Sample ID: 500-201190-9 DU**  
**Matrix: Water**  
**Analysis Batch: 606953**

**Client Sample ID: G48S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1040		mg/L		3	5

**Lab Sample ID: 500-201190-10 DU**  
**Matrix: Water**  
**Analysis Batch: 606953**

**Client Sample ID: G47S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1020		mg/L		2	5

**Lab Sample ID: MB 500-607383/1**  
**Matrix: Water**  
**Analysis Batch: 607383**

**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			07/02/21 02:31	1

**Lab Sample ID: LCS 500-607383/2**  
**Matrix: Water**  
**Analysis Batch: 607383**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	248		mg/L		99	80 - 120

**Lab Sample ID: 500-201190-17 MS**  
**Matrix: Water**  
**Analysis Batch: 607383**

**Client Sample ID: G44S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	730		250	1010		mg/L		113	75 - 125

**Lab Sample ID: 500-201190-17 DU**  
**Matrix: Water**  
**Analysis Batch: 607383**

**Client Sample ID: G44S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	730		698		mg/L		5	5

**Lab Sample ID: 500-201190-18 DU**  
**Matrix: Water**  
**Analysis Batch: 607383**

**Client Sample ID: G46S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1080		mg/L		4	5

Euofins TestAmerica, Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

**Lab Sample ID: MB 500-609688/16**  
**Matrix: Water**  
**Analysis Batch: 609688**

**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			07/14/21 13:26	1

**Lab Sample ID: LCS 500-609688/17**  
**Matrix: Water**  
**Analysis Batch: 609688**

**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	20.9		mg/L		105	85 - 115

**Lab Sample ID: 500-201190-1 MS**  
**Matrix: Water**  
**Analysis Batch: 609688**

**Client Sample ID: T02S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	95		20.0	111	4	mg/L		84	75 - 125

**Lab Sample ID: 500-201190-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 609688**

**Client Sample ID: T02S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	95		20.0	112	4	mg/L		85	75 - 125	0	20

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 500-609663/3**  
**Matrix: Water**  
**Analysis Batch: 609663**

**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			07/15/21 17:15	1

**Lab Sample ID: LCS 500-609663/4**  
**Matrix: Water**  
**Analysis Batch: 609663**

**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	11.0		mg/L		110	80 - 120

**Lab Sample ID: 500-201190-1 MS**  
**Matrix: Water**  
**Analysis Batch: 609663**

**Client Sample ID: T02S**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.53		5.00	6.06		mg/L		111	75 - 125



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

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

Lab Sample ID: 500-201190-1 MSD  
 Matrix: Water  
 Analysis Batch: 609663

Client Sample ID: T02S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.53		5.00	6.15		mg/L		112	75 - 125	1	20

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

Lab Sample ID: MB 500-609689/15  
 Matrix: Water  
 Analysis Batch: 609689

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			07/14/21 13:54	1

Lab Sample ID: LCS 500-609689/16  
 Matrix: Water  
 Analysis Batch: 609689

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	21.5		mg/L		107	80 - 120

Lab Sample ID: 500-201190-1 MS  
 Matrix: Water  
 Analysis Batch: 609689

Client Sample ID: T02S  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	380		20.0	388	4	mg/L		37	75 - 125

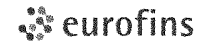
Lab Sample ID: 500-201190-1 MSD  
 Matrix: Water  
 Analysis Batch: 609689

Client Sample ID: T02S  
 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	389	4	mg/L		43	75 - 125	0	20

# Chain of Custody Record

543782




Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager</b> <i>Jodie Bracken</i>		<b>Site Contact</b>		<b>Date</b>		<b>COC No</b>	
Company Name <i>Midwest Generation EME L</i>		Tel/Email		Lab Contact.		Carrier		_____ of _____ COCs	
Address		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Total Metals As, B, By, Ca, Cd, Cu, Pb, Mn, Ni, S, Se, Zn</i>		 500-201190 COC		Sampler	
City State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Job / SDG No	
Project Name <i>Joliet #9 CCR</i>								<i>500-201190</i>	
Site <i>2021-GW</i>								Sample Specific Notes	
P O #									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.			
<i>1</i> <i>2</i> T025		<i>06/21/21</i>	<i>1012</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
T085		<i>06/21/21</i>	<i>1146</i>		<i>W</i>	<i>5</i>	<i>/</i>	<i>/</i>	<i>/</i>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					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 & Comments:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <i>29</i> Corr'd _____		Therm ID No			
Relinquished by <i>[Signature]</i>		Company <i>[Signature]</i>		Date/Time <i>06/21/21 1410</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received by <i>[Signature]</i>		Company <i>ETA-ONE</i>	
								<i>6/21/21 1410</i>	

# Chain of Custody Record

543783



Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other


Client Contact		Project Manager <b>Jodie Bracken</b>		Site Contact:		Date		COC No			
Company Name <b>Midwest Generation EME</b>		Tel/Email		Lab Contact:		Carrier		_____ of _____ COCs			
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS /MSD (Y/N) Radium 226 Radium 228 Combined 226/228 Total Metals As, B, Ba, Ca, Co TDS, FI, Cl, SO4		<p>500-201190 COC</p>		Sampler			
City/State/Zip <b>Joliet, IL</b>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>			
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Job / SDG No			
Project Name <b>Joliet #9 CCR</b>								<b>500-201190</b>			
Site <b>2Q21 GW</b>								Sample Specific Notes			
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
3 4 5 T03S		06/22/21	0913		W	5	/	/	/	/	
T06S		06/22/21	1045		W	5	/	/	/	/	
T05S		06/22/21	1307		W	5	/	/	/	/	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____											
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						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 & Comments:											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <b>1.8</b> Corr'd _____		Therm ID No _____					
Relinquished by <b>[Signature]</b>		Company <b>JWR</b>		Date/Time <b>06/22/21 1516</b>		Received by		Company		Date/Time	
Relinquished by		Company		Date/Time		Received by		Company		Date/Time	
Relinquished by		Company		Date/Time		Received in Laboratory by <b>[Signature]</b>		Company <b>EPA-CRT</b>		Date/Time <b>6/22/21 1516</b>	



Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date		COC No	
Company Name <i>Midwest Generation ENE LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS/MSD (Y/N) <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Total Metals As B, Ba, Ca, Ce, Pb, Sr, Mo, S</i> <i>TDS, FI, Cl, SO4</i>		 500-201190 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Project Name <i>Joliet #9 CCP</i>								Lab Sampling	
Site <i>2021 FC</i>								Job / SDG No	
P O #						500-201190		Sample Specific Notes	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
9 <i>G485</i>	<i>06/24/21</i>	<i>0848</i>		<i>W</i>	<i>5</i>				
10 <i>G475</i>	<i>06/24/21</i>	<i>1015</i>		<i>W</i>	<i>5</i>				
11 <i>G335</i>	<i>06/24/21</i>	<i>1211</i>		<i>W</i>	<i>5</i>				
12 <i>DUP of G335</i>	<i>06/24/21</i>	<i>1211</i>		<i>W</i>	<i>5</i>				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample					Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
<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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments									
<i>B.L. 48qt.</i>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____		Corr'd _____		Therm ID No _____	
Relinquished by <i>[Signature]</i>		Company <i>TBC</i>		Date/Time <i>06/24/21 11428</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>ETA-CA1</i>	
								Date/Time <i>6/24/21 1428</i>	

# Chain of Custody Record

543785




Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: <u>Diana Mockler</u>		Site Contact		Date		COC No		
Company Name <u>Midwest Generation EME LLC</u>		Tel/Email:		Lab Contact:		Carrier:		_____ of _____ COCs		
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) <u>Radium 226</u> <u>Radium 226</u> <u>Combined 226/228</u> <u>Total Metals As, B, Ca, Co, Cr, Cu, Fe, Mn, Ni, Pb, Se, Zn</u> <u>TDS, FI, CI, SO4</u>		 500-201190 COC		Sampler		
City/State/Zip <u>Joliet, IL</u>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only		
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client		
Project Name <u>Joliet #9 CCR</u>								Lab Sampling		
Site <u>2Q21 GU</u>								Job / SDG No		
P O #						<u>500-201190</u>		Sample Specific Notes		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
<u>T04S</u>		<u>06/28/21</u>	<u>0900</u>				<u>No samples due to property development excavation</u>			
<u>T01S</u>		<u>06/28/21</u>	<u>1001</u>		<u>W</u>	<u>5</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>R32S</u>		<u>06/28/21</u>	<u>1339</u>		<u>W</u>	<u>5</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>G45S</u>		<u>06/28/21</u>	<u>1433</u>		<u>W</u>	<u>5</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other										
Possible Hazard Identification						Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)				
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										
Special Instructions/QC Requirements & Comments:										
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No <u>1545</u>		Cooler Temp (°C) Obs'd <u>5.8</u> Corr'd _____		Therm ID No. _____				
Relinquished by <u>[Signature]</u>		Company <u>ETA</u>		Date/Time <u>6/28/21 1445</u>		Received by _____		Company _____		Date/Time: _____
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <u>[Signature]</u>		Company <u>ETA-CHI</u>		Date/Time <u>6/28/21 1545</u>


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Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date		COC No	
Company Name <i>Midwest Generation EAF LLC</i>		Tel/Email		Lab Contact <i>GA</i>		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Total Metals As B, Bi, Co, Cr, Mn, Ni, Pb, Se, V, Zn</i> <i>TDS, F, Cl, SO4</i>		 500-201190 COC		Sampler	
City/State/Zip <i>Joliet FL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Fax								Lab Sampling	
Project Name <i>Joliet #9 CCR</i>								Job / SDG No	
Site <i>2021 GW</i>				500-201190					
P O #								Sample Specific Notes	
Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)		
<i>G44S</i>	<i>06/30/21</i>	<i>0927</i>		<i>W</i>	<i>5</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>G46S</i>	<i>06/30/21</i>	<i>1022</i>		<i>W</i>	<i>5</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>G30S</i>	<i>06/30/21</i>	<i>1120</i>		<i>W</i>	<i>5</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
<i>G31S</i>	<i>06/30/21</i>	<i>1325</i>		<i>W</i>	<i>5</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other _____						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
Special Instructions/QC Requirements & Comments: <p style="text-align: center;"><i>4.0</i></p>									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____			
Relinquished by <i>[Signature]</i>		Company <i>TMC</i>		Date/Time <i>06/30/21 1428</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>ETA-CH1</i> Date/Time <i>6/30/21 1428</i>	

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# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-201190-1

**Login Number: 201190**

**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	2.9,1.8,3.6,0.6,5.8,4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: T02S**

**Lab Sample ID: 500-201190-1**

**Date Collected: 06/21/21 10:12**

**Matrix: Water**

**Date Received: 06/21/21 14:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	606889	06/29/21 13:45	EEN	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	606286	06/25/21 13:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	606559	06/28/21 12:45	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	605343	06/22/21 03:41	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:35	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 17:21	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:08	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/21/21 10:12	JVB	TAL CHI

**Client Sample ID: T08S**

**Lab Sample ID: 500-201190-2**

**Date Collected: 06/21/21 11:46**

**Matrix: Water**

**Date Received: 06/21/21 14:10**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	606889	06/29/21 14:02	EEN	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	606286	06/25/21 14:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	606559	06/28/21 13:09	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	605343	06/22/21 03:44	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:36	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 17:29	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:09	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/21/21 11:46	JVB	TAL CHI

**Client Sample ID: T03S**

**Lab Sample ID: 500-201190-3**

**Date Collected: 06/22/21 09:13**

**Matrix: Water**

**Date Received: 06/22/21 15:16**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	606889	06/29/21 14:05	EEN	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	606286	06/25/21 14:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	606559	06/28/21 13:12	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	605609	06/23/21 05:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:36	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 17:32	MS	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Client Sample ID: T03S

Lab Sample ID: 500-201190-3

Date Collected: 06/22/21 09:13

Matrix: Water

Date Received: 06/22/21 15:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		5	609689	07/14/21 14:01	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/22/21 09:13	JVB	TAL CHI

## Client Sample ID: T06S

Lab Sample ID: 500-201190-4

Date Collected: 06/22/21 10:45

Matrix: Water

Date Received: 06/22/21 15:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	606889	06/29/21 14:11	EEN	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	606286	06/25/21 14:07	FXG	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	606559	06/28/21 13:15	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	605609	06/23/21 05:36	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	609688	07/14/21 13:27	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 17:36	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	609689	07/14/21 14:01	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/22/21 10:45	JVB	TAL CHI

## Client Sample ID: T05S

Lab Sample ID: 500-201190-5

Date Collected: 06/22/21 13:07

Matrix: Water

Date Received: 06/22/21 15:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	606889	06/29/21 14:27	EEN	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	606286	06/25/21 14:10	FXG	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		100	606559	06/28/21 13:19	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	605609	06/23/21 05:39	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:37	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 17:39	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:09	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/22/21 13:07	JVB	TAL CHI

## Client Sample ID: T09S

Lab Sample ID: 500-201190-6

Date Collected: 06/23/21 09:43

Matrix: Water

Date Received: 06/23/21 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	606889	06/29/21 14:31	EEN	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Client Sample ID: T09S

Date Collected: 06/23/21 09:43

Date Received: 06/23/21 15:37

## Lab Sample ID: 500-201190-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	606286	06/25/21 14:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	606559	06/28/21 13:22	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606400	06/27/21 22:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:37	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 17:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:10	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/23/21 09:43	JVB	TAL CHI

## Client Sample ID: G20S

Date Collected: 06/23/21 11:20

Date Received: 06/23/21 15:37

## Lab Sample ID: 500-201190-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	606889	06/29/21 14:34	EEN	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	606286	06/25/21 14:17	FXG	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	606559	06/28/21 13:26	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606400	06/27/21 23:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	609688	07/14/21 13:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 17:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	609689	07/14/21 14:02	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/23/21 11:20	JVB	TAL CHI

## Client Sample ID: R08S

Date Collected: 06/23/21 14:05

Date Received: 06/23/21 15:37

## Lab Sample ID: 500-201190-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	606889	06/29/21 14:37	EEN	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	606286	06/25/21 14:21	FXG	TAL CHI
Total Recoverable	Prep	3005A			605952	06/24/21 08:44	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	606559	06/28/21 13:29	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606400	06/27/21 23:05	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:38	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 17:58	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:10	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/23/21 14:05	JVB	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Client Sample ID: G48S

Date Collected: 06/24/21 08:48

Date Received: 06/24/21 14:28

## Lab Sample ID: 500-201190-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607116	06/30/21 20:31	EEN	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607209	06/30/21 18:24	FXG	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	607492	07/01/21 13:38	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:38	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:01	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:10	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/24/21 08:48	JVB	TAL CHI

## Client Sample ID: G47S

Date Collected: 06/24/21 10:15

Date Received: 06/24/21 14:28

## Lab Sample ID: 500-201190-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607116	06/30/21 20:35	EEN	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607209	06/30/21 18:28	FXG	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	607492	07/01/21 13:45	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:38	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:04	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:10	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/24/21 10:15	JVB	TAL CHI

## Client Sample ID: G33S

Date Collected: 06/24/21 12:11

Date Received: 06/24/21 14:28

## Lab Sample ID: 500-201190-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607116	06/30/21 20:45	EEN	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607209	06/30/21 18:31	FXG	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	607492	07/01/21 13:49	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	609688	07/14/21 13:29	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:08	MS	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G33S**

**Lab Sample ID: 500-201190-11**

Date Collected: 06/24/21 12:11

Matrix: Water

Date Received: 06/24/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		5	609689	07/14/21 14:05	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/24/21 12:11	JVB	TAL CHI

**Client Sample ID: DUP**

**Lab Sample ID: 500-201190-12**

Date Collected: 06/24/21 12:11

Matrix: Water

Date Received: 06/24/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607116	06/30/21 20:48	EEN	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607209	06/30/21 18:35	FXG	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	607492	07/01/21 13:52	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	609688	07/14/21 13:29	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:10	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	609689	07/14/21 14:05	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/24/21 12:11	JVB	TAL CHI

**Client Sample ID: T04S**

**Lab Sample ID: 500-201190-13**

Date Collected: 06/28/21 09:00

Matrix: Water

Date Received: 06/28/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1	605474	06/28/21 09:00	JVB	TAL CHI

**Client Sample ID: T01S**

**Lab Sample ID: 500-201190-14**

Date Collected: 06/28/21 10:01

Matrix: Water

Date Received: 06/28/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607116	06/30/21 20:52	EEN	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607209	06/30/21 18:38	FXG	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	607492	07/01/21 13:56	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:39	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:13	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:12	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/28/21 10:01	JVB	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

## Client Sample ID: R32S

Date Collected: 06/28/21 13:39

Date Received: 06/28/21 15:45

## Lab Sample ID: 500-201190-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607116	06/30/21 20:55	EEN	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607209	06/30/21 18:42	FXG	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	607492	07/01/21 13:59	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:39	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:16	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:12	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/28/21 13:39	JVB	TAL CHI

## Client Sample ID: G45S

Date Collected: 06/28/21 14:33

Date Received: 06/28/21 15:45

## Lab Sample ID: 500-201190-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607116	06/30/21 20:59	EEN	TAL CHI
Total Recoverable	Prep	3005A			606931	06/30/21 08:25	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607209	06/30/21 18:45	FXG	TAL CHI
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	608130	07/02/21 22:25	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	606953	06/30/21 08:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:39	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:20	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	609689	07/14/21 14:06	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/28/21 14:33	JVB	TAL CHI

## Client Sample ID: G44S

Date Collected: 06/30/21 09:27

Date Received: 06/30/21 14:28

## Lab Sample ID: 500-201190-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607420	07/01/21 19:00	EEN	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607502	07/01/21 19:56	FXG	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	607568	07/02/21 11:45	FXG	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607568	07/02/21 12:49	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	607383	07/02/21 02:36	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:40	MS	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G44S**

**Lab Sample ID: 500-201190-17**

Date Collected: 06/30/21 09:27

Matrix: Water

Date Received: 06/30/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:23	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	609689	07/14/21 14:06	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/30/21 09:27	JVB	TAL CHI

**Client Sample ID: G46S**

**Lab Sample ID: 500-201190-18**

Date Collected: 06/30/21 10:22

Matrix: Water

Date Received: 06/30/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607420	07/01/21 19:17	EEN	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607502	07/01/21 20:13	FXG	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		100	607568	07/02/21 12:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607568	07/02/21 13:06	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	607383	07/02/21 02:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	609688	07/14/21 13:40	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:36	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:13	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/30/21 10:22	JVB	TAL CHI

**Client Sample ID: G30S**

**Lab Sample ID: 500-201190-19**

Date Collected: 06/30/21 11:20

Matrix: Water

Date Received: 06/30/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607420	07/01/21 19:21	EEN	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607502	07/01/21 20:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	607568	07/02/21 12:13	FXG	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607568	07/02/21 13:09	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	607383	07/02/21 02:49	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	609688	07/14/21 13:40	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:39	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:13	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/30/21 11:20	JVB	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-1

**Client Sample ID: G31S**

**Lab Sample ID: 500-201190-20**

**Date Collected: 06/30/21 13:25**

**Matrix: Water**

**Date Received: 06/30/21 14:28**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607420	07/01/21 19:24	EEN	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607502	07/01/21 20:20	FXG	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	607568	07/02/21 12:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			607199	07/01/21 09:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	607568	07/02/21 13:13	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	607383	07/02/21 02:51	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	609688	07/14/21 13:40	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	609663	07/15/21 18:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	609689	07/14/21 14:17	MS	TAL CHI
Total/NA	Analysis	Field Sampling		1	605474	06/30/21 13:25	JVB	TAL CHI

**Laboratory References:**

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





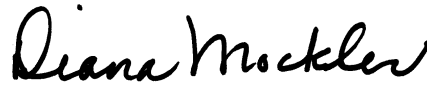
## ANALYTICAL REPORT

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

Laboratory Job ID: 500-201190-2  
Client Project/Site: Joliet #9 (Quarry) CCR 2Q21

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

Attn: Richard Gnat



Authorized for release by:  
7/28/2021 3:25:11 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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Job ID: 500-201190-2

### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

#### Job Narrative 500-201190-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/21/2021 3:16 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 0.6° C, 1.8° C, 2.9° C, 3.6° C, 4.0° C and 5.8° C.

#### RAD

Methods 903.0, 9315: Radium 226 prep batch 160-516431

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

G48S (500-201190-9), G47S (500-201190-10), G33S (500-201190-11), DUP (500-201190-12), (LCS 160-516431/1-A), (MB 160-516431/25-A), (240-151699-W-1-A), (240-151699-B-1-A MS), (240-151699-C-1-A MSD) and (500-201190-D-9-B DU)

Methods 903.0, 9315: Radium 226 prep batch 160-516084

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

T02S (500-201190-1), T08S (500-201190-2), T03S (500-201190-3), T06S (500-201190-4), T05S (500-201190-5), T09S (500-201190-6), G20S (500-201190-7), R08S (500-201190-8), (LCS 160-516084/1-A), (MB 160-516084/22-A) and (500-201190-E-2-B DU)

Methods 903.0, 9315: Radium-226 Batch 516797

The Radium-226 laboratory control sample (LCS) associated with the following samples recovered at 74%: T01S (500-201190-14), R32S (500-201190-15), G45S (500-201190-16), (LCS 160-516797/1-A), (MB 160-516797/10-A) and (500-201190-D-14-A DU). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (67-118%) per method requirements. The LCS is within criteria and no further action is required.

Methods 903.0, 9315: Radium-226 Batch 516797

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. T01S (500-201190-14), R32S (500-201190-15), G45S (500-201190-16), (LCS 160-516797/1-A), (MB 160-516797/10-A) and (500-201190-D-14-A DU)

Method 903.0: Radium-226 prep batch 160-516985:

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. G44S (500-201190-17), G46S (500-201190-18), G30S (500-201190-19), G31S (500-201190-20), (LCS 160-516985/1-A), (MB 160-516985/9-A) and (500-201190-C-17-A DU)

Methods 904.0, 9320: Radium-228 Batch 516150

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. T02S (500-201190-1), T08S (500-201190-2), T03S (500-201190-3), T06S (500-201190-4), T05S (500-201190-5), T09S (500-201190-6), G20S (500-201190-7), R08S (500-201190-8), (LCS 160-516150/1-A), (MB 160-516150/22-A) and (500-201190-E-2-C DU)

# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Job ID: 500-201190-2 (Continued)

### Laboratory: Eurofins TestAmerica, Chicago (Continued)

Methods 904.0, 9320: Radium 228 Prep Batch 160-516800

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interferences. The data have been reported with this narrative.

T01S (500-201190-14) and (500-201190-D-14-B DU)

Methods 904.0, 9320: Radium 228 Prep Batch 160-516800

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.

T01S (500-201190-14), R32S (500-201190-15), G45S (500-201190-16), (LCS 160-516800/1-A), (MB 160-516800/10-A) and (500-201190-D-14-B DU)

Method 904.0: Radium 228 prep batch 160-516992

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.

G44S (500-201190-17), G46S (500-201190-18), G30S (500-201190-19), G31S (500-201190-20), (LCS 160-516992/1-A), (MB 160-516992/9-A) and (500-201190-C-17-B DU)

Methods 904.0, 9320: Radium 228 Prep Batch 160-516800

The sample duplicate precision RPD/RER/DER for the following sample was outside control limits: (500-201190-D-14-B DU). Non-homogeneity of the sample matrix is evidenced by the samples physical appearance.

Methods 904.0, 9320: Radium-228 prep batch 160-516453:

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. G47S (500-201190-10), G33S (500-201190-11), DUP (500-201190-12), (LCS 160-516453/1-A), (MB 160-516453/25-A), (240-151699-W-1-B), (240-151699-B-1-B MS) and (240-151699-C-1-B MSD)

Method 904.0: Radium-228 prep batch 160-519686:

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. G48S (500-201190-9), (LCS 160-519686/1-A), (LCSD 160-519686/2-A) and (MB 160-519686/4-A)

Method PrecSep\_0:

Method PrecSep\_0:

Method PrecSep\_0:

Method PrecSep\_0: Ra-228 Batch 160-519686:

Insufficient sample volume was available to perform a sample duplicate (DUP) for the following samples: G48S (500-201190-9). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead to demonstrate batch precision.

Method PrecSep-21:

Method PrecSep-21:

# Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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## Job ID: 500-201190-2 (Continued)

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### Laboratory: Eurofins TestAmerica, Chicago (Continued)

Method PrecSep-21:

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

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# Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-201190-1	T02S	Water	06/21/21 10:12	06/21/21 14:10
500-201190-2	T08S	Water	06/21/21 11:46	06/21/21 14:10
500-201190-3	T03S	Water	06/22/21 09:13	06/22/21 15:16
500-201190-4	T06S	Water	06/22/21 10:45	06/22/21 15:16
500-201190-5	T05S	Water	06/22/21 13:07	06/22/21 15:16
500-201190-6	T09S	Water	06/23/21 09:43	06/23/21 15:37
500-201190-7	G20S	Water	06/23/21 11:20	06/23/21 15:37
500-201190-8	R08S	Water	06/23/21 14:05	06/23/21 15:37
500-201190-9	G48S	Water	06/24/21 08:48	06/24/21 14:28
500-201190-10	G47S	Water	06/24/21 10:15	06/24/21 14:28
500-201190-11	G33S	Water	06/24/21 12:11	06/24/21 14:28
500-201190-12	DUP	Water	06/24/21 12:11	06/24/21 14:28
500-201190-14	T01S	Water	06/28/21 10:01	06/28/21 15:45
500-201190-15	R32S	Water	06/28/21 13:39	06/28/21 15:45
500-201190-16	G45S	Water	06/28/21 14:33	06/28/21 15:45
500-201190-17	G44S	Water	06/30/21 09:27	06/30/21 14:28
500-201190-18	G46S	Water	06/30/21 10:22	06/30/21 14:28
500-201190-19	G30S	Water	06/30/21 11:20	06/30/21 14:28
500-201190-20	G31S	Water	06/30/21 13:25	06/30/21 14:28



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Client Sample ID: T02S

Lab Sample ID: 500-201190-1

Date Collected: 06/21/21 10:12

Matrix: Water

Date Received: 06/21/21 14:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.613		0.177	0.186	1.00	0.171	pCi/L	06/25/21 13:45	07/19/21 15:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.9		40 - 110					06/25/21 13:45	07/19/21 15:37	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	0.694		0.358	0.363	1.00	0.529	pCi/L	06/25/21 16:33	07/12/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.9		40 - 110					06/25/21 16:33	07/12/21 13:08	1
Y Carrier	92.0		40 - 110					06/25/21 16:33	07/12/21 13:08	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	1.31		0.399	0.408	5.00	0.529	pCi/L		07/22/21 22:07	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: T08S**

**Lab Sample ID: 500-201190-2**

Date Collected: 06/21/21 11:46

Matrix: Water

Date Received: 06/21/21 14:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.500		0.144	0.151	1.00	0.137	pCi/L	06/25/21 13:45	07/19/21 16:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					06/25/21 13:45	07/19/21 16:57	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	0.455		0.259	0.262	1.00	0.386	pCi/L	06/25/21 16:33	07/12/21 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					06/25/21 16:33	07/12/21 13:19	1
Y Carrier	92.6		40 - 110					06/25/21 16:33	07/12/21 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	0.954		0.296	0.302	5.00	0.386	pCi/L		07/22/21 22:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: T03S**

**Lab Sample ID: 500-201190-3**

Date Collected: 06/22/21 09:13

Matrix: Water

Date Received: 06/22/21 15:16

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.768		0.172	0.185	1.00	0.126	pCi/L	06/25/21 13:45	07/19/21 17:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		40 - 110					06/25/21 13:45	07/19/21 17:17	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	0.571		0.282	0.287	1.00	0.411	pCi/L	06/25/21 16:33	07/12/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		40 - 110					06/25/21 16:33	07/12/21 13:08	1
Y Carrier	95.2		40 - 110					06/25/21 16:33	07/12/21 13:08	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	1.34		0.330	0.341	5.00	0.411	pCi/L		07/22/21 22:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: T06S**

**Lab Sample ID: 500-201190-4**

Date Collected: 06/22/21 10:45

Matrix: Water

Date Received: 06/22/21 15:16

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.31		0.214	0.244	1.00	0.131	pCi/L	06/25/21 13:45	07/19/21 17:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					06/25/21 13:45	07/19/21 17:25	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	0.476		0.263	0.267	1.00	0.392	pCi/L	06/25/21 16:33	07/12/21 13:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					06/25/21 16:33	07/12/21 13:19	1
Y Carrier	94.0		40 - 110					06/25/21 16:33	07/12/21 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	1.79		0.339	0.362	5.00	0.392	pCi/L		07/22/21 22:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: T05S**

**Lab Sample ID: 500-201190-5**

Date Collected: 06/22/21 13:07

Matrix: Water

Date Received: 06/22/21 15:16

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.296		0.151	0.154	1.00	0.195	pCi/L	06/25/21 13:45	07/19/21 17:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.4		40 - 110					06/25/21 13:45	07/19/21 17:25	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	0.247	U	0.335	0.335	1.00	0.558	pCi/L	06/25/21 16:33	07/12/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.4		40 - 110					06/25/21 16:33	07/12/21 13:08	1
Y Carrier	96.7		40 - 110					06/25/21 16:33	07/12/21 13:08	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	0.543	U	0.367	0.369	5.00	0.558	pCi/L		07/22/21 22:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: T09S**

**Lab Sample ID: 500-201190-6**

Date Collected: 06/23/21 09:43

Matrix: Water

Date Received: 06/23/21 15:37

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.72		0.188	0.244	1.00	0.115	pCi/L	06/25/21 13:45	07/19/21 18:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					06/25/21 13:45	07/19/21 18:58	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	0.840		0.285	0.295	1.00	0.382	pCi/L	06/25/21 16:33	07/12/21 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					06/25/21 16:33	07/12/21 13:09	1
Y Carrier	97.0		40 - 110					06/25/21 16:33	07/12/21 13:09	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	2.56		0.341	0.383	5.00	0.382	pCi/L		07/22/21 22:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G20S**

**Lab Sample ID: 500-201190-7**

Date Collected: 06/23/21 11:20

Matrix: Water

Date Received: 06/23/21 15:37

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.05		0.156	0.182	1.00	0.106	pCi/L	06/25/21 13:45	07/19/21 18:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					06/25/21 13:45	07/19/21 18:58	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	1.01		0.306	0.320	1.00	0.394	pCi/L	06/25/21 16:33	07/12/21 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.2		40 - 110					06/25/21 16:33	07/12/21 13:09	1
Y Carrier	95.5		40 - 110					06/25/21 16:33	07/12/21 13:09	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	2.06		0.343	0.368	5.00	0.394	pCi/L		07/22/21 22:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: R08S**

**Lab Sample ID: 500-201190-8**

Date Collected: 06/23/21 14:05

Matrix: Water

Date Received: 06/23/21 15:37

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.661		0.118	0.132	1.00	0.0851	pCi/L	06/25/21 13:45	07/19/21 19:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					06/25/21 13:45	07/19/21 19:01	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	0.801		0.261	0.271	1.00	0.342	pCi/L	06/25/21 16:33	07/12/21 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					06/25/21 16:33	07/12/21 13:09	1
Y Carrier	96.4		40 - 110					06/25/21 16:33	07/12/21 13:09	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	1.46		0.286	0.301	5.00	0.342	pCi/L		07/22/21 22:07	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G48S**

**Lab Sample ID: 500-201190-9**

Date Collected: 06/24/21 08:48

Matrix: Water

Date Received: 06/24/21 14:28

**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>1.91</b>		0.251	0.305	1.00	0.128	pCi/L	06/28/21 15:23	07/20/21 12:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		40 - 110					06/28/21 15:23	07/20/21 12:00	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>1.42</b>		0.316	0.342	1.00	0.374	pCi/L	07/22/21 09:13	07/28/21 09:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.6		40 - 110					07/22/21 09:13	07/28/21 09:08	1
Y Carrier	89.6		40 - 110					07/22/21 09:13	07/28/21 09:08	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>3.89</b>		0.454	0.518	5.00	0.416	pCi/L		07/22/21 22:08	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G47S**

**Lab Sample ID: 500-201190-10**

Date Collected: 06/24/21 10:15

Matrix: Water

Date Received: 06/24/21 14:28

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.545		0.138	0.147	1.00	0.120	pCi/L	06/28/21 15:23	07/20/21 13:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/28/21 15:23	07/20/21 13:40	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	0.327	U	0.241	0.243	1.00	0.379	pCi/L	06/28/21 16:36	07/13/21 13:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/28/21 16:36	07/13/21 13:08	1
Y Carrier	89.9		40 - 110					06/28/21 16:36	07/13/21 13:08	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	0.871		0.278	0.284	5.00	0.379	pCi/L		07/22/21 22:08	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G33S**

**Lab Sample ID: 500-201190-11**

Date Collected: 06/24/21 12:11

Matrix: Water

Date Received: 06/24/21 14:28

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.384		0.220	0.222	1.00	0.292	pCi/L	06/28/21 15:23	07/20/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		40 - 110					06/28/21 15:23	07/20/21 13:41	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	1.06		0.600	0.608	1.00	0.899	pCi/L	06/28/21 16:36	07/13/21 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.1		40 - 110					06/28/21 16:36	07/13/21 13:09	1
Y Carrier	88.7		40 - 110					06/28/21 16:36	07/13/21 13:09	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	1.44		0.639	0.647	5.00	0.899	pCi/L		07/22/21 22:08	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: DUP**

**Lab Sample ID: 500-201190-12**

Date Collected: 06/24/21 12:11

Matrix: Water

Date Received: 06/24/21 14:28

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.421		0.199	0.203	1.00	0.249	pCi/L	06/28/21 15:23	07/20/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.9		40 - 110					06/28/21 15:23	07/20/21 13:41	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	1.20		0.500	0.512	1.00	0.698	pCi/L	06/28/21 16:36	07/13/21 13:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	63.9		40 - 110					06/28/21 16:36	07/13/21 13:09	1
Y Carrier	90.2		40 - 110					06/28/21 16:36	07/13/21 13:09	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	1.62		0.538	0.551	5.00	0.698	pCi/L		07/22/21 22:08	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: T01S**

**Lab Sample ID: 500-201190-14**

Date Collected: 06/28/21 10:01

Matrix: Water

Date Received: 06/28/21 15:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.04		0.443	0.479	1.00	0.346	pCi/L	06/30/21 16:06	07/22/21 06:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.3		40 - 110					06/30/21 16:06	07/22/21 06:14	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	0.456	U G	0.623	0.625	1.00	1.04	pCi/L	06/30/21 17:04	07/12/21 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.3		40 - 110					06/30/21 17:04	07/12/21 13:03	1
Y Carrier	89.6		40 - 110					06/30/21 17:04	07/12/21 13:03	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	2.49		0.764	0.787	5.00	1.04	pCi/L		07/25/21 11:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: R32S**

**Lab Sample ID: 500-201190-15**

Date Collected: 06/28/21 13:39

Matrix: Water

Date Received: 06/28/21 15:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.26		0.206	0.235	1.00	0.131	pCi/L	06/30/21 16:06	07/22/21 06:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					06/30/21 16:06	07/22/21 06:14	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		0.277	0.287	1.00	0.357	pCi/L	06/30/21 17:04	07/12/21 13:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		40 - 110					06/30/21 17:04	07/12/21 13:03	1
Y Carrier	94.3		40 - 110					06/30/21 17:04	07/12/21 13:03	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	2.10		0.345	0.371	5.00	0.357	pCi/L		07/25/21 11:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G45S**

**Lab Sample ID: 500-201190-16**

Date Collected: 06/28/21 14:33

Matrix: Water

Date Received: 06/28/21 15:45

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	1.07		0.192	0.215	1.00	0.123	pCi/L	06/30/21 16:06	07/22/21 06:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					06/30/21 16:06	07/22/21 06:13	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	1.07		0.332	0.346	1.00	0.419	pCi/L	06/30/21 17:04	07/12/21 13:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					06/30/21 17:04	07/12/21 13:04	1
Y Carrier	86.9		40 - 110					06/30/21 17:04	07/12/21 13:04	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	2.14		0.384	0.407	5.00	0.419	pCi/L		07/25/21 11:09	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G44S**

**Lab Sample ID: 500-201190-17**

Date Collected: 06/30/21 09:27

Matrix: Water

Date Received: 06/30/21 14:28

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.594		0.138	0.148	1.00	0.112	pCi/L	07/02/21 11:00	07/27/21 07:26	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	86.4		40 - 110					07/02/21 11:00	07/27/21 07:26	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	0.701		0.272	0.280	1.00	0.374	pCi/L	07/02/21 11:24	07/13/21 12:52	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	86.4		40 - 110					07/02/21 11:24	07/13/21 12:52	1
Y Carrier	92.9		40 - 110					07/02/21 11:24	07/13/21 12:52	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	1.29		0.305	0.317	5.00	0.374	pCi/L		07/28/21 15:12	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G46S**

**Lab Sample ID: 500-201190-18**

Date Collected: 06/30/21 10:22

Matrix: Water

Date Received: 06/30/21 14:28

**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>0.939</b>		0.168	0.188	1.00	0.108	pCi/L	07/02/21 11:00	07/27/21 07:27	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	88.3		40 - 110					07/02/21 11:00	07/27/21 07:27	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>1.23</b>		0.322	0.341	1.00	0.403	pCi/L	07/02/21 11:24	07/13/21 12:53	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	88.3		40 - 110					07/02/21 11:24	07/13/21 12:53	1
Y Carrier	93.2		40 - 110					07/02/21 11:24	07/13/21 12:53	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>2.17</b>		0.363	0.389	5.00	0.403	pCi/L		07/28/21 15:12	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G30S**

**Lab Sample ID: 500-201190-19**

Date Collected: 06/30/21 11:20

Matrix: Water

Date Received: 06/30/21 14:28

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.940		0.172	0.191	1.00	0.123	pCi/L	07/02/21 11:00	07/27/21 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					07/02/21 11:00	07/27/21 07:32	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	1.63		0.343	0.374	1.00	0.386	pCi/L	07/02/21 11:24	07/13/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					07/02/21 11:24	07/13/21 12:53	1
Y Carrier	91.4		40 - 110					07/02/21 11:24	07/13/21 12:53	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	2.57		0.384	0.420	5.00	0.386	pCi/L		07/28/21 15:12	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

**Client Sample ID: G31S**

**Lab Sample ID: 500-201190-20**

Date Collected: 06/30/21 13:25

Matrix: Water

Date Received: 06/30/21 14:28

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	2.07		0.251	0.313	1.00	0.135	pCi/L	07/02/21 11:00	07/27/21 07:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					07/02/21 11:00	07/27/21 07:32	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	1.95		0.367	0.408	1.00	0.396	pCi/L	07/02/21 11:24	07/13/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					07/02/21 11:24	07/13/21 12:53	1
Y Carrier	93.5		40 - 110					07/02/21 11:24	07/13/21 12:53	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	4.02		0.445	0.514	5.00	0.396	pCi/L		07/28/21 15:12	1

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Rad

### Prep Batch: 516084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total/NA	Water	PrecSep-21	
500-201190-2	T08S	Total/NA	Water	PrecSep-21	
500-201190-3	T03S	Total/NA	Water	PrecSep-21	
500-201190-4	T06S	Total/NA	Water	PrecSep-21	
500-201190-5	T05S	Total/NA	Water	PrecSep-21	
500-201190-6	T09S	Total/NA	Water	PrecSep-21	
500-201190-7	G20S	Total/NA	Water	PrecSep-21	
500-201190-8	R08S	Total/NA	Water	PrecSep-21	
MB 160-516084/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-516084/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-201190-2 DU	T08S	Total/NA	Water	PrecSep-21	

### Prep Batch: 516150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-1	T02S	Total/NA	Water	PrecSep_0	
500-201190-2	T08S	Total/NA	Water	PrecSep_0	
500-201190-3	T03S	Total/NA	Water	PrecSep_0	
500-201190-4	T06S	Total/NA	Water	PrecSep_0	
500-201190-5	T05S	Total/NA	Water	PrecSep_0	
500-201190-6	T09S	Total/NA	Water	PrecSep_0	
500-201190-7	G20S	Total/NA	Water	PrecSep_0	
500-201190-8	R08S	Total/NA	Water	PrecSep_0	
MB 160-516150/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-516150/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-201190-2 DU	T08S	Total/NA	Water	PrecSep_0	

### Prep Batch: 516431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-9	G48S	Total/NA	Water	PrecSep-21	
500-201190-10	G47S	Total/NA	Water	PrecSep-21	
500-201190-11	G33S	Total/NA	Water	PrecSep-21	
500-201190-12	DUP	Total/NA	Water	PrecSep-21	
MB 160-516431/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-516431/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-201190-9 DU	G48S	Total/NA	Water	PrecSep-21	

### Prep Batch: 516453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-10	G47S	Total/NA	Water	PrecSep_0	
500-201190-11	G33S	Total/NA	Water	PrecSep_0	
500-201190-12	DUP	Total/NA	Water	PrecSep_0	
MB 160-516453/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-516453/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

### Prep Batch: 516797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-14	T01S	Total/NA	Water	PrecSep-21	
500-201190-15	R32S	Total/NA	Water	PrecSep-21	
500-201190-16	G45S	Total/NA	Water	PrecSep-21	
MB 160-516797/10-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-516797/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Rad (Continued)

### Prep Batch: 516797 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-14 DU	T01S	Total/NA	Water	PrecSep-21	

### Prep Batch: 516800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-14	T01S	Total/NA	Water	PrecSep_0	
500-201190-15	R32S	Total/NA	Water	PrecSep_0	
500-201190-16	G45S	Total/NA	Water	PrecSep_0	
MB 160-516800/10-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-516800/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-201190-14 DU	T01S	Total/NA	Water	PrecSep_0	

### Prep Batch: 516985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-17	G44S	Total/NA	Water	PrecSep-21	
500-201190-18	G46S	Total/NA	Water	PrecSep-21	
500-201190-19	G30S	Total/NA	Water	PrecSep-21	
500-201190-20	G31S	Total/NA	Water	PrecSep-21	
MB 160-516985/9-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-516985/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-201190-17 DU	G44S	Total/NA	Water	PrecSep-21	

### Prep Batch: 516992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-17	G44S	Total/NA	Water	PrecSep_0	
500-201190-18	G46S	Total/NA	Water	PrecSep_0	
500-201190-19	G30S	Total/NA	Water	PrecSep_0	
500-201190-20	G31S	Total/NA	Water	PrecSep_0	
MB 160-516992/9-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-516992/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-201190-17 DU	G44S	Total/NA	Water	PrecSep_0	

### Prep Batch: 519686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201190-9	G48S	Total/NA	Water	PrecSep_0	
MB 160-519686/4-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-519686/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-519686/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

**Lab Sample ID: MB 160-516084/22-A**  
**Matrix: Water**  
**Analysis Batch: 519315**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516084**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1162	U	0.108	0.108	1.00	0.170	pCi/L	06/25/21 13:45	07/20/21 07:56	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					06/25/21 13:45	07/20/21 07:56	1
	76.8									

**Lab Sample ID: LCS 160-516084/1-A**  
**Matrix: Water**  
**Analysis Batch: 519170**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516084**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits	
				Uncert. (2σ+/-)						
Radium-226	11.3	10.74		1.16	1.00	0.160	pCi/L	95	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	68.7		40 - 110							

**Lab Sample ID: 500-201190-2 DU**  
**Matrix: Water**  
**Analysis Batch: 519170**

**Client Sample ID: T08S**  
**Prep Type: Total/NA**  
**Prep Batch: 516084**

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.500		0.3208		0.133	1.00	0.158	pCi/L	0.63	1
Carrier	DU	DU								
Ba Carrier	%Yield	Qualifier	Limits							
	86.1		40 - 110							

**Lab Sample ID: MB 160-516431/25-A**  
**Matrix: Water**  
**Analysis Batch: 519413**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516431**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.03176	U	0.0511	0.0512	1.00	0.121	pCi/L	06/28/21 15:23	07/20/21 17:20	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					06/28/21 15:23	07/20/21 17:20	1
	94.0									

**Lab Sample ID: LCS 160-516431/1-A**  
**Matrix: Water**  
**Analysis Batch: 519315**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516431**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.81		1.15	1.00	0.171	pCi/L	95	75 - 125

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

**Lab Sample ID: LCS 160-516431/1-A**  
**Matrix: Water**  
**Analysis Batch: 519315**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516431**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	80.1		40 - 110

**Lab Sample ID: 500-201190-9 DU**  
**Matrix: Water**  
**Analysis Batch: 519315**

**Client Sample ID: G48S**  
**Prep Type: Total/NA**  
**Prep Batch: 516431**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	1.91		1.436		0.253	1.00	0.130	pCi/L	0.85	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.2		40 - 110

**Lab Sample ID: MB 160-516797/10-A**  
**Matrix: Water**  
**Analysis Batch: 519738**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516797**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								Time	Date	Time	Date	
Radium-226	0.08561	U	0.0831	0.0834	1.00	0.130	pCi/L	06/30/21 16:06	07/22/21 06:14			1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Time	Date	
Ba Carrier	75.3		40 - 110	06/30/21 16:06	07/22/21 06:14	1

**Lab Sample ID: LCS 160-516797/1-A**  
**Matrix: Water**  
**Analysis Batch: 519738**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516797**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									Min	Max
Radium-226	11.3	8.401		0.883	1.00	0.103	pCi/L	74	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	108		40 - 110

**Lab Sample ID: 500-201190-14 DU**  
**Matrix: Water**  
**Analysis Batch: 519738**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 516797**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER
										Limit
Radium-226	2.04		1.638		0.419	1.00	0.323	pCi/L	0.44	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	61.4		40 - 110

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

**Lab Sample ID: MB 160-516985/9-A**  
**Matrix: Water**  
**Analysis Batch: 520324**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516985**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01509	U	0.0946	0.0946	1.00	0.178	pCi/L	07/02/21 11:00	07/27/21 07:33	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	62.7		40 - 110			07/02/21 11:00	07/27/21 07:33	1		

**Lab Sample ID: LCS 160-516985/1-A**  
**Matrix: Water**  
**Analysis Batch: 520324**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516985**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.04		1.14	1.00	0.123	pCi/L	97	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	81.0		40 - 110						

**Lab Sample ID: 500-201190-17 DU**  
**Matrix: Water**  
**Analysis Batch: 520324**

**Client Sample ID: G44S**  
**Prep Type: Total/NA**  
**Prep Batch: 516985**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.594		0.7040		0.167	1.00	0.123	pCi/L	0.35	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.9		40 - 110							

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

**Lab Sample ID: MB 160-516150/22-A**  
**Matrix: Water**  
**Analysis Batch: 518290**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516150**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1101	U	0.273	0.273	1.00	0.470	pCi/L	06/25/21 16:33	07/12/21 13:09	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	76.8		40 - 110			06/25/21 16:33	07/12/21 13:09	1		
Y Carrier	96.1		40 - 110			06/25/21 16:33	07/12/21 13:09	1		



# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

**Lab Sample ID: LCS 160-516150/1-A**  
**Matrix: Water**  
**Analysis Batch: 518279**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516150**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.53	9.878		1.22	1.00	0.545	pCi/L	104	75 - 125	
<b>Carrier</b>		<b>LCS %Yield</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
Ba Carrier		68.7		40 - 110						
Y Carrier		91.1		40 - 110						

**Lab Sample ID: 500-201190-2 DU**  
**Matrix: Water**  
**Analysis Batch: 518279**

**Client Sample ID: T08S**  
**Prep Type: Total/NA**  
**Prep Batch: 516150**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.455		0.6924		0.307	1.00	0.431	pCi/L	0.42	1
<b>Carrier</b>		<b>DU %Yield</b>	<b>DU Qualifier</b>	<b>Limits</b>						
Ba Carrier		86.1		40 - 110						
Y Carrier		93.8		40 - 110						

**Lab Sample ID: MB 160-516453/25-A**  
**Matrix: Water**  
**Analysis Batch: 518325**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516453**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
Radium-228	0.3358		0.219	0.221	1.00	0.332	pCi/L	06/28/21 16:36	07/13/21 13:16		1	
<b>Carrier</b>		<b>MB %Yield</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
Ba Carrier		94.0		40 - 110				06/28/21 16:36	07/13/21 13:16	1		
Y Carrier		93.5		40 - 110				06/28/21 16:36	07/13/21 13:16	1		

**Lab Sample ID: LCS 160-516453/1-A**  
**Matrix: Water**  
**Analysis Batch: 518492**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516453**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.53	11.28		1.30	1.00	0.429	pCi/L	118	75 - 125	
<b>Carrier</b>		<b>LCS %Yield</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
Ba Carrier		80.1		40 - 110						
Y Carrier		88.4		40 - 110						

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

**Lab Sample ID: MB 160-516800/10-A**  
**Matrix: Water**  
**Analysis Batch: 518165**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516800**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.01516	U	0.267	0.267	1.00	0.482	pCi/L	06/30/21 17:04	07/12/21 13:14	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	75.3		40 - 110				06/30/21 17:04		07/12/21 13:14	
Y Carrier	90.2		40 - 110				06/30/21 17:04		07/12/21 13:14	

**Lab Sample ID: LCS 160-516800/1-A**  
**Matrix: Water**  
**Analysis Batch: 518289**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516800**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	9.53	8.362		0.968	1.00	0.337	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	108		40 - 110						
Y Carrier	91.1		40 - 110						

**Lab Sample ID: 500-201190-14 DU**  
**Matrix: Water**  
**Analysis Batch: 518289**

**Client Sample ID: T01S**  
**Prep Type: Total/NA**  
**Prep Batch: 516800**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-228	0.456	U G	2.624	G F	0.914	1.00	1.18	pCi/L	1.41	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	61.4		40 - 110							
Y Carrier	92.6		40 - 110							

**Lab Sample ID: MB 160-516992/9-A**  
**Matrix: Water**  
**Analysis Batch: 518492**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 516992**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.1789	U	0.326	0.326	1.00	0.611	pCi/L	07/02/21 11:24	07/13/21 12:53	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	62.7		40 - 110				07/02/21 11:24		07/13/21 12:53	
Y Carrier	91.7		40 - 110				07/02/21 11:24		07/13/21 12:53	

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

**Lab Sample ID: LCS 160-516992/1-A**  
**Matrix: Water**  
**Analysis Batch: 518492**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 516992**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.53	10.86		1.25	1.00	0.419	pCi/L	114	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	81.0		40 - 110							
Y Carrier	93.5		40 - 110							

**Lab Sample ID: 500-201190-17 DU**  
**Matrix: Water**  
**Analysis Batch: 518492**

**Client Sample ID: G44S**  
**Prep Type: Total/NA**  
**Prep Batch: 516992**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium-228	0.701		0.6756		0.293	1.00	0.409	pCi/L	0.04	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	84.9		40 - 110							
Y Carrier	93.5		40 - 110							

**Lab Sample ID: MB 160-519686/4-A**  
**Matrix: Water**  
**Analysis Batch: 520413**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 519686**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										1
Radium-228	0.6913		0.257	0.264	1.00	0.341	pCi/L	07/22/21 09:13	07/28/21 09:08	1
<b>MB MB</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	91.9		40 - 110							
Y Carrier	84.5		40 - 110							
								<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
								07/22/21 09:13	07/28/21 09:08	1
								07/22/21 09:13	07/28/21 09:08	1

**Lab Sample ID: LCS 160-519686/1-A**  
**Matrix: Water**  
**Analysis Batch: 520413**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 519686**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.48	9.453		1.10	1.00	0.376	pCi/L	100	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	84.2		40 - 110							
Y Carrier	91.4		40 - 110							

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

**Lab Sample ID: LCSD 160-519686/2-A**  
**Matrix: Water**  
**Analysis Batch: 520413**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 519686**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		RER	
									Min	Max	RER	Limit
Radium-228	9.48	9.800		1.13	1.00	0.419	pCi/L	103	75	125	0.15	1

Carrier	LCSD		Limits
	%Yield	Qualifier	
Ba Carrier	89.0		40 - 110
Y Carrier	91.1		40 - 110

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# Chain of Custody Record

543783



Environment Testing  
TestAmerica

TAL-8210

Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other


Client Contact		Project Manager <b>Jodie Bracken</b>		Site Contact:		Date		COC No			
Company Name <b>Midwest Generation EME</b>		Tel/Email		Lab Contact:		Carrier		_____ of _____ COCs			
Address		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS /MSD (Y/N) Radium 226 Radium 228 Combined 226/228 Total Metals As, B, Ba, Ca, Co TDS, F, Cl, SO4		<p>500-201190 COC</p>		Sampler			
City/State/Zip <b>Joliet, IL</b>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only Walk-in Client <input type="checkbox"/> Lab Sampling <input type="checkbox"/>			
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Job / SDG No			
Project Name <b>Joliet #9 CCR</b>								<b>500-201190</b>			
Site <b>2Q21 GW</b>								Sample Specific Notes			
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.					
3 4 5 T03S		06/22/21	0913		W	5	/	/	/	/	
T06S		06/22/21	1045		W	5	/	/	/	/	
T05S		06/22/21	1307		W	5	/	/	/	/	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____											
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)					
<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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Special Instructions/QC Requirements & Comments:											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd <b>1.8</b> Corr'd _____		Therm ID No _____					
Relinquished by <b>[Signature]</b>		Company <b>JWR</b>		Date/Time <b>06/22/21 1516</b>		Received by		Company			
Relinquished by		Company		Date/Time		Received by		Company			
Relinquished by		Company		Date/Time		Received in Laboratory by <b>[Signature]</b>		Company <b>EPA-CRT</b> Date/Time <b>6/22/21 1516</b>			



Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date		COC No	
Company Name <i>Midwest Generation ENE LLC</i>		Tel/Email		Lab Contact		Carrier		_____ of _____ COCs	
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Total Metals As B, Ba, Ca, Ce, Pb, Th, Mo, S</i> <i>TDS, F, Cl, SO4</i>		 500-201190 COC		Sampler	
City/State/Zip <i>Joliet, IL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only	
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client	
Project Name <i>Joliet #9 CCP</i>								Lab Sampling	
Site <i>2021 FC</i>								Job / SDG No	
P O #						500-201190		Sample Specific Notes	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.				
9 <i>G485</i>	<i>06/24/21</i>	<i>0848</i>		<i>W</i>	<i>5</i>				
10 <i>G475</i>	<i>06/24/21</i>	<i>1015</i>		<i>W</i>	<i>5</i>				
11 <i>G335</i>	<i>06/24/21</i>	<i>1211</i>		<i>W</i>	<i>5</i>				
12 <i>DUP of G335</i>	<i>06/24/21</i>	<i>1211</i>		<i>W</i>	<i>5</i>				
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									
Possible Hazard Identification. Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)			
<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"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months			
Special Instructions/QC Requirements & Comments									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____		Corr'd _____		Therm ID No _____	
Relinquished by <i>[Signature]</i>		Company <i>TBC</i>		Date/Time <i>06/24/21 11428</i>		Received by		Company	
Relinquished by		Company		Date/Time		Received by		Company	
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <i>ETA-CA1</i>	
								Date/Time <i>6/24/21 1420</i>	






Address \_\_\_\_\_

Regulatory Program:  DW  NPDES  RCRA  Other

TAL-8210

Client Contact		Project Manager <i>Diana Mockler</i>		Site Contact		Date		COC No											
Company Name <i>Midwest Generation EAF LLC</i>		Tel/Email		Lab Contact <i>GA</i>		Carrier		_____ of _____ COCs											
Address		Analysis Turnaround Time		Filtered Sample (Y/N) _____ Perform MS/MSD (Y/N) _____ <i>Radium 226</i> <i>Radium 228</i> <i>Combined 226/228</i> <i>Total Metals As B, Bi, Co, Cr, Pb, Mn, Se, S</i> <i>TDS, F, Cl, SO4</i>		 500-201190 COC		Sampler											
City/State/Zip <i>Tolich FL</i>		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____						For Lab Use Only											
Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Walk-in Client											
Fax								Lab Sampling											
Project Name <i>Solich #9 CCR</i>								Job / SDG No											
Site <i>2021 GW</i>				500-201190															
P O #								Sample Specific Notes											
Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix	# of Cont.	1	2	3	4	5	6	7	8	9	10	11	12	13	
<i>G44S</i>	<i>06/30/21</i>	<i>0927</i>		<i>W</i>	<i>5</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
<i>G46S</i>	<i>06/30/21</i>	<i>1022</i>		<i>W</i>	<i>5</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
<i>G30S</i>	<i>06/30/21</i>	<i>1120</i>		<i>W</i>	<i>5</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
<i>G31S</i>	<i>06/30/21</i>	<i>1325</i>		<i>W</i>	<i>5</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	
Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other _____						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample						<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months													
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown																			
Special Instructions/QC Requirements & Comments:																			
<i>4.0</i>																			
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No				Cooler Temp (°C) Obs'd _____ Corr'd _____				Therm ID No _____									
Relinquished by <i>[Signature]</i>		Company <i>TMC</i>		Date/Time <i>06/30/21 1428</i>		Received by				Company		Date/Time							
Relinquished by		Company		Date/Time		Received by				Company		Date/Time							
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Stephanie Hernandez</i>				Company <i>ETA-CH1</i>		Date/Time <i>6/30/21 1428</i>							

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**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Company: TestAmerica Laboratories, Inc.		Phone:	Mockler, Diana J	500-149865.1	500-149865.1
Address: 13715 Rider Trail North,		E-Mail:	Diana.Mockler@Eurofins.com	State of Origin:	Page 1 of 1
City: Earth City		Accreditations Required (See note):		Job #:	500-201190-1
State, Zip: MO, 63045		NELAP - Illinois		<b>Analysis Requested</b>	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Due Date Requested: 7/12/2021		Preservation Codes:	
Email:		TAT Requested (days):		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)	
Project Name: Joliet #9 (Quarry) CCR		PO #:		Total Number of containers	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		WO #:		3	
Project #: 50011504		Project #:		Special Instructions/Note:	
SSOW#:		SSOW#:		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
<b>Sample Identification - Client ID (Lab ID)</b>		Preservation Code:		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
T03S (500-201190-3)	Sample Date: 6/22/21	Sample Time: 09:13 Central	Sample Type (C=Comp, G=grab):	Matrix (W=water, S=solid, O=wasteoil, BT=trace, A=As):	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
T06S (500-201190-4)	Sample Date: 6/22/21	Sample Time: 10:45 Central			Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
T05S (500-201190-5)	Sample Date: 6/22/21	Sample Time: 13:07 Central			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/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:					
Relinquished by: <i>[Signature]</i> Date: 6/23/21 15:20					
Relinquished by: <i>[Signature]</i> Date: 6/23/21 15:20					
Relinquished by: <i>[Signature]</i> Date: 6/23/21 15:20					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No					
Custody Seal No.:					
Cooler Temperature(s) °C and Other Remarks:					
<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 <input type="checkbox"/> Months</p> <p>Special Instructions/QC Requirements:</p>					
<p>Received by: <i>[Signature]</i> Date: 6/23/21 15:20</p> <p>Received by: <i>[Signature]</i> Date: 6/23/21 15:20</p> <p>Received by: <i>[Signature]</i> Date: 6/23/21 15:20</p>					
<p>Company: <i>[Signature]</i></p> <p>Company: <i>[Signature]</i></p> <p>Company: <i>[Signature]</i></p>					



**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Lab Pk: Mockler, Diana J	Carrier Tracking (Not):	COC No: 500-149909.1							
Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1							
TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-201190-1								
Address: 13715 Rider Trail North,		Due Date Requested: 7/13/2021	Preservation Codes:								
City: Earth City		TAT Requested (days):	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		PO #:	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 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)		WO #:									
Email:		Project #:									
Project Name: Joliet #9 (Quarry) CCR		50011504									
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=issue, A=Air)	Field Filtered 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	Total Number of Containers	Special Instructions/Note:
T09S (500-201190-6)	6/23/21	09:43 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
G20S (500-201190-7)	6/23/21	11:20 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
R08S (500-201190-8)	6/23/21	14:05 Central	Water	Water	X	X	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 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>Stephanie Hernandez</i> FE											
Relinquished by: _____ Date/Time: 6/23/21 1630 Company: ETA - CHI											
Relinquished by: _____ Date/Time: _____ Company: _____											
Custody Seals Intact: _____ Custody Seal No.: _____											
Cooler Temperature(s) °C and Other Remarks											

**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-149937.1							
Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinsnet.com	State of Origin: Illinois	Page: Page 1 of 1							
TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-201190-1							
Address: 13715 Rider Trail North,		Due Date Requested: 7/13/2021									
City: Earth City		TAT Requested (days):									
State, Zip: MO, 63045		PO #:									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:									
Email:		Project #: 50011504									
Site: NRG Midwest Generation LSQ Joliet #9 CCR		SSOW#:									
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=trace, A=As)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List	90.0/PreSep_0 Standard Target List	Ra26Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
G48S (500-201190-9)	6/24/21	08:48 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
G47S (500-201190-10)	6/24/21	10:15 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
G33S (500-201190-11)	6/24/21	12:11 Central	Water	Water	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
DUP (500-201190-12)	6/24/21	12:11 Central	Water	Water	X	X	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>											
<input type="checkbox"/> Unconfirmed <input type="checkbox"/> Deliverable Requested: I, II, III, IV, Other (specify) _____ <input type="checkbox"/> Empty Kit Relinquished by: _____ Date: _____ Time: _____ <input type="checkbox"/> Relinquished by: _____ Date/Time: _____ Company: _____ <input type="checkbox"/> Relinquished by: _____ Date/Time: _____ Company: _____ <input type="checkbox"/> Relinquished by: _____ Date/Time: _____ Company: _____ <input type="checkbox"/> Custody Seals Intact: _____ Custody Seal No.: _____ <input type="checkbox"/> Yes <input type="checkbox"/> No											
<input type="checkbox"/> 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:											
Method of Shipment: _____ Date/Time: _____ Received by: FE Date/Time: 6/25/21 10:55 Company: ETA STL Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks:											





# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-150041.1	
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@Eurofins.com		Page: Page 1 of 1	
Address: 13715 Rider Trail North, Earth City, MO, 63045		Accreditations Required (See note): NELAP - Illinois		Job #: 500-201190-1	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Due Date Requested: 7/12/2021		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: 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: Joliet #9 (Quarry) CCR		TAT Requested (days):		Analysis Requested	
Site: NRG Midwest Generation LSQ Joliet #9 CCR		PO #:		Total Number of Containers	
Project #: 50011504		WO #:		Perform MS/MSD (Yes or No)	
SSOW#:		Sample Date		Field Filtered Sample (Yes or No)	
Sample Identification - Client ID (Lab ID)		Sample Time		Preservation Code	
G44S (500-201190-17)	6/30/21	09:27 Central	Water	X	X
G46S (500-201190-18)	6/30/21	10:22 Central	Water	X	X
G30S (500-201190-19)	6/30/21	11:20 Central	Water	X	X
G31S (500-201190-20)	6/30/21	13:25 Central	Water	X	X
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.					
<b>Possible Hazard Identification</b> 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) <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>Stephanie Hernandez</i> Date/Time: 6/30/21 1630 Company: ETA - CH Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks:					



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-201190-2

**Login Number: 201190**

**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	2.9,1.8,3.6,0.6,5.8,4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-201190-2

**Login Number: 201190**

**List Number: 2**

**Creator: Geiler, Autumn R**

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

**List Creation: 06/22/21 11:26 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 500-201190-2

**Login Number: 201190**

**List Number: 3**

**Creator: Geiler, Autumn R**

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

**List Creation: 06/23/21 11:11 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 500-201190-2

**Login Number: 201190**

**List Number: 4**

**Creator: Geiler, Autumn R**

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

**List Creation: 06/24/21 10:38 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 500-201190-2

**Login Number: 201190**

**List Number: 5**

**Creator: Worthington, Sierra M**

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

**List Creation: 06/25/21 12:07 PM**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	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: 500-201190-2

**Login Number: 201190**

**List Number: 6**

**Creator: Korrinhizer, Micha L**

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

**List Creation: 06/29/21 11:31 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 500-201190-2

**Login Number: 201190**

**List Number: 7**

**Creator: Worthington, Sierra M**

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

**List Creation: 07/01/21 02:27 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.	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	

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Client Sample ID: T02S

Date Collected: 06/21/21 10:12

Date Received: 06/21/21 14:10

Lab Sample ID: 500-201190-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516084	06/25/21 13:45	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 15:37	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516150	06/25/21 16:33	MJ	TAL SL
Total/NA	Analysis	904.0		1	518290	07/12/21 13:08	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519859	07/22/21 22:07	SCB	TAL SL

## Client Sample ID: T08S

Date Collected: 06/21/21 11:46

Date Received: 06/21/21 14:10

Lab Sample ID: 500-201190-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516084	06/25/21 13:45	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 16:57	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516150	06/25/21 16:33	MJ	TAL SL
Total/NA	Analysis	904.0		1	518279	07/12/21 13:19	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519859	07/22/21 22:07	SCB	TAL SL

## Client Sample ID: T03S

Date Collected: 06/22/21 09:13

Date Received: 06/22/21 15:16

Lab Sample ID: 500-201190-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516084	06/25/21 13:45	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 17:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516150	06/25/21 16:33	MJ	TAL SL
Total/NA	Analysis	904.0		1	518290	07/12/21 13:08	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519859	07/22/21 22:07	SCB	TAL SL

## Client Sample ID: T06S

Date Collected: 06/22/21 10:45

Date Received: 06/22/21 15:16

Lab Sample ID: 500-201190-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516084	06/25/21 13:45	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 17:25	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516150	06/25/21 16:33	MJ	TAL SL
Total/NA	Analysis	904.0		1	518279	07/12/21 13:19	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519859	07/22/21 22:07	SCB	TAL SL



# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Client Sample ID: T05S

Lab Sample ID: 500-201190-5

Date Collected: 06/22/21 13:07

Matrix: Water

Date Received: 06/22/21 15:16

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516084	06/25/21 13:45	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 17:25	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516150	06/25/21 16:33	MJ	TAL SL
Total/NA	Analysis	904.0		1	518290	07/12/21 13:08	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519859	07/22/21 22:07	SCB	TAL SL

## Client Sample ID: T09S

Lab Sample ID: 500-201190-6

Date Collected: 06/23/21 09:43

Matrix: Water

Date Received: 06/23/21 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516084	06/25/21 13:45	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 18:58	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516150	06/25/21 16:33	MJ	TAL SL
Total/NA	Analysis	904.0		1	518290	07/12/21 13:09	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519859	07/22/21 22:07	SCB	TAL SL

## Client Sample ID: G20S

Lab Sample ID: 500-201190-7

Date Collected: 06/23/21 11:20

Matrix: Water

Date Received: 06/23/21 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516084	06/25/21 13:45	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 18:58	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516150	06/25/21 16:33	MJ	TAL SL
Total/NA	Analysis	904.0		1	518290	07/12/21 13:09	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519859	07/22/21 22:07	SCB	TAL SL

## Client Sample ID: R08S

Lab Sample ID: 500-201190-8

Date Collected: 06/23/21 14:05

Matrix: Water

Date Received: 06/23/21 15:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516084	06/25/21 13:45	MJ	TAL SL
Total/NA	Analysis	903.0		1	519170	07/19/21 19:01	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516150	06/25/21 16:33	MJ	TAL SL
Total/NA	Analysis	904.0		1	518290	07/12/21 13:09	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519859	07/22/21 22:07	SCB	TAL SL

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Client Sample ID: G48S

Lab Sample ID: 500-201190-9

Date Collected: 06/24/21 08:48

Matrix: Water

Date Received: 06/24/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516431	06/28/21 15:23	MJ	TAL SL
Total/NA	Analysis	903.0		1	519315	07/20/21 12:00	ANW	TAL SL
Total/NA	Prep	PrecSep_0			519686	07/22/21 09:13	MJ	TAL SL
Total/NA	Analysis	904.0		1	520413	07/28/21 09:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519860	07/22/21 22:08	SCB	TAL SL

## Client Sample ID: G47S

Lab Sample ID: 500-201190-10

Date Collected: 06/24/21 10:15

Matrix: Water

Date Received: 06/24/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516431	06/28/21 15:23	MJ	TAL SL
Total/NA	Analysis	903.0		1	519315	07/20/21 13:40	ANW	TAL SL
Total/NA	Prep	PrecSep_0			516453	06/28/21 16:36	MJ	TAL SL
Total/NA	Analysis	904.0		1	518324	07/13/21 13:08	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519860	07/22/21 22:08	SCB	TAL SL

## Client Sample ID: G33S

Lab Sample ID: 500-201190-11

Date Collected: 06/24/21 12:11

Matrix: Water

Date Received: 06/24/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516431	06/28/21 15:23	MJ	TAL SL
Total/NA	Analysis	903.0		1	519315	07/20/21 13:41	ANW	TAL SL
Total/NA	Prep	PrecSep_0			516453	06/28/21 16:36	MJ	TAL SL
Total/NA	Analysis	904.0		1	518324	07/13/21 13:09	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519860	07/22/21 22:08	SCB	TAL SL

## Client Sample ID: DUP

Lab Sample ID: 500-201190-12

Date Collected: 06/24/21 12:11

Matrix: Water

Date Received: 06/24/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516431	06/28/21 15:23	MJ	TAL SL
Total/NA	Analysis	903.0		1	519315	07/20/21 13:41	ANW	TAL SL
Total/NA	Prep	PrecSep_0			516453	06/28/21 16:36	MJ	TAL SL
Total/NA	Analysis	904.0		1	518324	07/13/21 13:09	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	519860	07/22/21 22:08	SCB	TAL SL

# Lab Chronicle

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Client Sample ID: T01S

Lab Sample ID: 500-201190-14

Date Collected: 06/28/21 10:01

Matrix: Water

Date Received: 06/28/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516797	06/30/21 16:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	519738	07/22/21 06:14	ANW	TAL SL
Total/NA	Prep	PrecSep_0			516800	06/30/21 17:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	518289	07/12/21 13:03	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520059	07/25/21 11:09	SCB	TAL SL

## Client Sample ID: R32S

Lab Sample ID: 500-201190-15

Date Collected: 06/28/21 13:39

Matrix: Water

Date Received: 06/28/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516797	06/30/21 16:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	519738	07/22/21 06:14	ANW	TAL SL
Total/NA	Prep	PrecSep_0			516800	06/30/21 17:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	518289	07/12/21 13:03	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520059	07/25/21 11:09	SCB	TAL SL

## Client Sample ID: G45S

Lab Sample ID: 500-201190-16

Date Collected: 06/28/21 14:33

Matrix: Water

Date Received: 06/28/21 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516797	06/30/21 16:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	519738	07/22/21 06:13	ANW	TAL SL
Total/NA	Prep	PrecSep_0			516800	06/30/21 17:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	518289	07/12/21 13:04	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520059	07/25/21 11:09	SCB	TAL SL

## Client Sample ID: G44S

Lab Sample ID: 500-201190-17

Date Collected: 06/30/21 09:27

Matrix: Water

Date Received: 06/30/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516985	07/02/21 11:00	MJ	TAL SL
Total/NA	Analysis	903.0		1	520324	07/27/21 07:26	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516992	07/02/21 11:24	MJ	TAL SL
Total/NA	Analysis	904.0		1	518492	07/13/21 12:52	TJR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520436	07/28/21 15:12	CMM	TAL SL

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

## Client Sample ID: G46S

Lab Sample ID: 500-201190-18

Date Collected: 06/30/21 10:22

Matrix: Water

Date Received: 06/30/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516985	07/02/21 11:00	MJ	TAL SL
Total/NA	Analysis	903.0		1	520325	07/27/21 07:27	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516992	07/02/21 11:24	MJ	TAL SL
Total/NA	Analysis	904.0		1	518492	07/13/21 12:53	TJR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520436	07/28/21 15:12	CMM	TAL SL

## Client Sample ID: G30S

Lab Sample ID: 500-201190-19

Date Collected: 06/30/21 11:20

Matrix: Water

Date Received: 06/30/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516985	07/02/21 11:00	MJ	TAL SL
Total/NA	Analysis	903.0		1	520325	07/27/21 07:32	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516992	07/02/21 11:24	MJ	TAL SL
Total/NA	Analysis	904.0		1	518492	07/13/21 12:53	TJR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520436	07/28/21 15:12	CMM	TAL SL

## Client Sample ID: G31S

Lab Sample ID: 500-201190-20

Date Collected: 06/30/21 13:25

Matrix: Water

Date Received: 06/30/21 14:28

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			516985	07/02/21 11:00	MJ	TAL SL
Total/NA	Analysis	903.0		1	520325	07/27/21 07:32	SCB	TAL SL
Total/NA	Prep	PrecSep_0			516992	07/02/21 11:24	MJ	TAL SL
Total/NA	Analysis	904.0		1	518492	07/13/21 12:53	TJR	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	520436	07/28/21 15:12	CMM	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: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	
500-201190-1	T02S	69.9	
500-201190-2	T08S	85.5	
500-201190-2 DU	T08S	86.1	
500-201190-3	T03S	82.2	
500-201190-4	T06S	86.1	
500-201190-5	T05S	83.4	
500-201190-6	T09S	93.1	
500-201190-7	G20S	85.2	
500-201190-8	R08S	97.0	
500-201190-9	G48S	90.4	
500-201190-9 DU	G48S	98.2	
500-201190-10	G47S	102	
500-201190-11	G33S	77.1	
500-201190-12	DUP	63.9	
500-201190-14	T01S	59.3	
500-201190-14 DU	T01S	61.4	
500-201190-15	R32S	86.1	
500-201190-16	G45S	81.6	
500-201190-17	G44S	86.4	
500-201190-17 DU	G44S	84.9	
500-201190-18	G46S	88.3	
500-201190-19	G30S	89.2	
500-201190-20	G31S	86.4	
LCS 160-516084/1-A	Lab Control Sample	68.7	
LCS 160-516431/1-A	Lab Control Sample	80.1	
LCS 160-516797/1-A	Lab Control Sample	108	
LCS 160-516985/1-A	Lab Control Sample	81.0	
MB 160-516084/22-A	Method Blank	76.8	
MB 160-516431/25-A	Method Blank	94.0	
MB 160-516797/10-A	Method Blank	75.3	
MB 160-516985/9-A	Method Blank	62.7	

**Tracer/Carrier Legend**

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
500-201190-1	T02S	69.9	92.0
500-201190-2	T08S	85.5	92.6
500-201190-2 DU	T08S	86.1	93.8
500-201190-3	T03S	82.2	95.2
500-201190-4	T06S	86.1	94.0
500-201190-5	T05S	83.4	96.7
500-201190-6	T09S	93.1	97.0
500-201190-7	G20S	85.2	95.5
500-201190-8	R08S	97.0	96.4

# Tracer/Carrier Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #9 (Quarry) CCR 2Q21

Job ID: 500-201190-2

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

**Matrix: Water**

**Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
500-201190-9	G48S	97.6	89.6
500-201190-10	G47S	102	89.9
500-201190-11	G33S	77.1	88.7
500-201190-12	DUP	63.9	90.2
500-201190-14	T01S	59.3	89.6
500-201190-14 DU	T01S	61.4	92.6
500-201190-15	R32S	86.1	94.3
500-201190-16	G45S	81.6	86.9
500-201190-17	G44S	86.4	92.9
500-201190-17 DU	G44S	84.9	93.5
500-201190-18	G46S	88.3	93.2
500-201190-19	G30S	89.2	91.4
500-201190-20	G31S	86.4	93.5
LCS 160-516150/1-A	Lab Control Sample	68.7	91.1
LCS 160-516453/1-A	Lab Control Sample	80.1	88.4
LCS 160-516800/1-A	Lab Control Sample	108	91.1
LCS 160-516992/1-A	Lab Control Sample	81.0	93.5
LCS 160-519686/1-A	Lab Control Sample	84.2	91.4
LCSD 160-519686/2-A	Lab Control Sample Dup	89.0	91.1
MB 160-516150/22-A	Method Blank	76.8	96.1
MB 160-516453/25-A	Method Blank	94.0	93.5
MB 160-516800/10-A	Method Blank	75.3	90.2
MB 160-516992/9-A	Method Blank	62.7	91.7
MB 160-519686/4-A	Method Blank	91.9	84.5

**Tracer/Carrier Legend**

Ba = Ba Carrier  
 Y = Y Carrier

