

## DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

Regulated Unit(s):   Ash By-pass Basin (IEPA ID No. W1798010008-04)  
                          Ash Surge Basin (IEPA ID No. W1798010008-01)

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, Powerton Station, Pekin, IL. Ash By-Pass Basin Ash Surge Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium	
MW-01 (S) up-gradient	11/16/2015	1.0	98	44	0.17	7.07	93	530	< 0.003	< 0.001	0.057	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.17	* < 0.0005	< 0.01	< 0.0002	< 0.0050	0.744	< 0.0025	* < 0.002	
	2/25/2016	0.2	110	42	0.16	7.23	54	460	< 0.003	0.0025	0.053	< 0.001	< 0.0005	< 0.005	0.0014	0.16	0.0019	< 0.01	< 0.0002	< 0.005	< 0.722	0.0029	< 0.002	
	5/20/2016	0.34	100	44	0.17	6.95	65	430	< 0.003	0.0081	0.062	< 0.001	< 0.0005	0.007	0.0053	0.17	0.011	< 0.01	< 0.0002	< 0.005	< 0.953	< 0.0025	< 0.002	
	8/17/2016	0.27	78	39	0.25	7.16	50	530	< 0.003	0.0014	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	0.0014	< 0.010	< 0.0002	0.0057	< 0.491	< 0.0025	< 0.002	
	11/16/2016	0.18	97	39	0.21	7.22	32	500	< 0.003	0.0051	0.056	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	0.0082	< 0.01	< 0.0002	0.0059	< 0.618	< 0.0025	< 0.002	
	2/14/2017	0.18	120	55	0.17	7.30	60	550	< 0.003	0.0041	0.056	< 0.001	< 0.0005	< 0.005	0.0045	0.17	0.0076	< 0.01	< 0.0002	0.0056	< 0.837	< 0.0025	< 0.002	
	5/3/2017	0.19	86	66	0.16	7.41	45	460	< 0.003	0.0015	0.045	< 0.001	< 0.0005	< 0.005	0.0033	0.16	0.0067	< 0.01	< 0.0002	< 0.005	< 0.574	< 0.0025	< 0.002	
	6/21/2017	0.18	85	58	0.18	7.60	47	540	< 0.003	< 0.001	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.418	< 0.0025	< 0.002	
	8/25/2017	0.56	86	41	0.18	7.41	63	490	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	0.0059	< 0.775	< 0.0025	< 0.002	
	11/8/2017	0.57	130	38	0.12	6.69	61	640	< 0.003	< 0.001	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	< 0.0005	< 0.01	< 0.0002	< 0.005	0.343	< 0.0025	< 0.002	
	5/17/2018	0.15	88	50	0.12	6.7	48	540	< 0.003	< 0.001	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	< 0.00068	< 0.01	< 0.0002	< 0.005	< 0.396	< 0.0025	< 0.002	
	8/8/2018	0.14	86	48	0.13	6.8	43	430	< 0.003	< 0.001	0.051	< ^ < 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.579	< 0.0025	< 0.002	
	4/30/2019	0.07	78	54	0.17	7.2	27	450	NA	0.0014	0.039	NA	< 0.0005	NA	< 0.001	0.17	0.0017	< 0.01	< 0.0002	< 0.005	< 0.656	< 0.0025	< 0.002	
	11/13/2019	0.52	95	47	0.18	7.51	41	390	NA	0.029	0.091	NA	0.00085	NA	0.016	0.18	0.034	0.012	< 0.0002	0.0079	< 0.884	< 0.0025	< 0.002	
	12/26/2019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0021	NA	0.0041	NA	NA	NA	NA	NA	NA	NA
	4/28/2020	0.33	110	46	0.19	7.17	41	470	NA	< 0.001	0.051	NA	< 0.0005	NA	< 0.001	0.19	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002	
	12/7/2020	0.6	100	54	0.25	7.22	55	490	NA	< 0.001	0.058	NA	< 0.0005	NA	< 0.001	0.25	0.00055	< ^ < 0.01	< 0.0002	0.0051	< 0.724	< 0.0025	< 0.002	
5/11/2021	0.23	84	53	0.2	7.52	38	450	< 0.003	< 0.001	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	0.2	< 0.0005	< 0.01	< 0.0002	0.01	< 0.523	< 0.0025	< 0.002		
MW-09 (S) up-gradient	11/18/2015	2.0	63	H 31	H 0.19	7.15	H 110	H 440	< 0.003	< 0.001	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	H 0.19	< 0.0005	< 0.01	H < 0.0002	0.043	< 0.655	< 0.0025	< 0.002	
	2/25/2016	2.3	77	36	0.19	7.34	120	500	< 0.003	0.0042	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	< 0.01	< 0.0002	0.053	< 0.361	< 0.0025	< 0.002	
	5/19/2016	2.0	73	38	0.17	7.30	100	520	< 0.003	< 0.001	0.029	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	0.042	< 0.394	0.0032	< 0.002	
	8/17/2016	2.7	74	39	0.15	7.32	120	750	< 0.003	< 0.001	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	0.15	< 0.0005	< 0.01	< 0.0002	0.036	< 0.498	< 0.0025	< 0.002	
	11/17/2016	4.5	85	38	0.13	7.37	110	630	< 0.003	0.0038	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.010	< 0.0002	0.036	0.646	0.0025	< 0.002	
	2/15/2017	4.1	84	38	0.13	6.94	160	620	< 0.003	0.0032	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.010	< 0.0002	0.035	< 0.377	0.0062	< 0.002	
	5/3/2017	3.5	85	38	0.17	7.48	170	680	< 0.003	0.0012	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	< 0.010	< 0.0002	0.034	< 0.445	0.011	< 0.002	
	6/21/2017	3.3	82	38	0.14	7.63	180	760	< 0.003	< 0.001	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	0.14	< 0.0005	< 0.010	< 0.0002	0.033	< 0.380	0.0072	< 0.002	
	8/25/2017	3.8	85	36	0.14	7.30	150	630	< 0.003	< 0.001	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	0.14	< 0.0005	< 0.010	< 0.0002	0.028	< 0.160	0.0043	< 0.002	
	11/8/2017	4	89	37	0.13	6.92	190	650	< 0.003	0.0012	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.010	< 0.0002	0.026	< 0.344	< 0.0025	< 0.002	
	5/16/2018	4.1	89	36	0.15	7.83	180	550	< 0.003	< 0.001	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	0.15	< 0.0005	< 0.010	0.00029	0.031	< 0.424	0.006	< 0.002	
	8/8/2018	4.3	86	39	0.14	7.31	180	690	< 0.003	< 0.001	0.037	< ^ < 0.001	< 0.0005	< 0.005	< 0.001	0.14	< 0.0005	< 0.010	< 0.0002	0.032	0.44	0.0078	< 0.002	
	5/1/2019	4.6	79	37	0.17	7.11	170	640	NA	< 0.001	0.038	NA	< 0.0005	NA	< 0.001	0.17	< 0.0005	< 0.010	< 0.0002	0.031	< 0.66	0.0036	< 0.002	
	11/14/2019	2.5	85	36	0.18	7.49	82	500	NA	0.0056	0.057	NA	< 0.0005	NA	0.0032	0.18	0.00076	< 0.010	< 0.0002	0.026	< 0.457	< 0.0025	< 0.002	
	4/29/2020	2	71	34	0.2	7.19	140	510	NA	0.0012	0.031	NA	< 0.0005	NA	< 0.001	0.2	< 0.0005	< 0.010	< 0.0002	0.028	< 0.698	< 0.0025	< 0.002	
	12/8/2020	2.6	65	34	0.22	7.29	63	400	NA	0.0013	0.042	NA	< 0.0005	NA	< 0.001	0.22	< 0.0005	< 0.010	< 0.0002	0.025	< 0.479	< 0.0025	< 0.002	
	5/13/2021	2	74	33	0.2	7.33	120	410	< 0.003	< 0.001	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	0.2	< 0.0005	< 0.010	< 0.0002	0.025	< 0.612	< 0.0025	< 0.002	
MW-19A (S) up-gradient	11/18/2015	3.8	89	38	0.13	7.34	120	670	< 0.003	< 0.001	0.084	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	0.00068	< 0.01	< 0.0002	0.035	< 0.476	0.0043	< 0.002	
	2/15/2017	4.7	88	37	0.13	7.50	180	630	< 0.003	< 0.001	0.088	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	0.00061	< 0.01	< 0.0002	0.046	< 0.482	0.0063	< 0.002	
	5/5/2017	3.3	88	38	0.14	7.51	160	640	< 0.003	< 0.001	0.076	< 0.001	< 0.0005	< 0.005	0.0013	0.14	0.0012	< 0.01	< 0.0002	0.035	0.923	0.0068	< 0.002	
	6/21/2017	2.3	110	35	0.12	7.30	170	690	< 0.003	< 0.001	0.089	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	< 0.0005	< 0.01	< 0.0002	0.024	< 0.334	0.0028	< 0.002	
	8/28/2017	3.5	97	36	0.16	7.20	160	700	< 0.003	< 0.001	0.073	< 0.001	< 0.0005	< 0.005	< 0.001	0.16	< 0.0005	< 0.01	< 0.0002	0.041	0.370	0.0035	< 0.002	
	11/6/2017	4.5	86	35	0.17	7.26	190	640	< 0.003	< 0.001	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	0.042	0.360	< 0.0025	< 0.002	
	5/14/2018	4.1	96	35	0.16	7.92	180	820	< 0.003	< 0.001	0.079	< 0.001	< 0.0005	< 0.005	< 0.001	0.16	< 0.0005	< 0.01	< 0.0002	0.043	0.562	0.0044	< 0.002	
	8/6/2018	3.8	100	37	0.13	7.57	170	720	< 0.003	< 0.001	0.078	< ^ < 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.01	< 0.0002	0.032	0.835	0.0052	<	

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash By-Pass Basin Ash Surge Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-11 (S) down-gradient	11/18/2015	1.7	110	H 54	H 0.55	7.06	H 160	H 670	< 0.003	0.017	0.18	^ < 0.001	< 0.0005	< 0.005	0.002	H 0.55	< 0.0005	< 0.01	H < 0.0002	0.0120	0.788	< 0.0025	< 0.002
	2/26/2016	1.5	140	120	0.55	7.25	220	850	< 0.003	0.023	0.23	< 0.001	< 0.0005	< 0.005	0.0023	0.55	< 0.0005	< 0.01	< 0.0002	0.013	0.562	< 0.0025	< 0.002
	5/20/2016	1.6	140	120	0.56	7.10	210	920	< 0.003	0.027	0.26	< 0.001	< 0.0005	< 0.005	0.0024	0.56	< 0.00076	< 0.01	< 0.0002	0.014	0.524	< 0.0025	< 0.002
	8/17/2016	1.0	130	93	0.67	7.08	180	910	< 0.003	F1 0.29	1.4	< 0.001	< 0.0005	< 0.005	0.0034	0.67	0.001	< 0.010	< 0.0002	0.011	1.130	< 0.0025	< 0.002
	11/17/2016	1.2	140	130	0.44	7.21	240	1100	< 0.003	0.071	0.44	< 0.001	< 0.0005	< 0.005	0.0037	0.44	0.0013	< 0.01	< 0.0002	0.0088	0.734	< 0.0025	< 0.002
	2/16/2017	1.6	140	110	0.40	6.62	260	910	< 0.003	0.04	0.3	< 0.001	< 0.0005	< 0.005	0.003	0.40	0.00094	< 0.01	< 0.0002	0.013	0.341	< 0.0025	< 0.002
	5/3/2017	1.3	160	160	0.42	7.36	440	1300	< 0.003	0.039	0.26	< 0.001	< 0.0005	< 0.005	0.0035	0.42	0.00093	< 0.01	< 0.0002	0.015	0.662	< 0.0025	< 0.002
	6/22/2017	1.2	140	120	0.60	7.21	260	1000	< 0.003	0.07	0.36	< 0.001	< 0.0005	< 0.005	0.0025	0.60	< 0.0005	< 0.01	< 0.0002	0.014	< 0.418	< 0.0025	< 0.002
	8/29/2017	2.2	130	83	0.52	7.23	310	1100	< 0.003	0.017	0.21	< 0.001	< 0.0005	< 0.005	0.0026	0.52	< 0.0005	< 0.01	< 0.0002	0.016	< 0.313	< 0.0025	< 0.002
	11/9/2017	1.5	140	100	0.59	6.96	230	970	< 0.003	0.092	0.54	< 0.001	< 0.0005	< 0.005	0.0034	0.59	< 0.0005	< 0.01	< 0.0002	0.014	1.24	< 0.0025	< 0.002
	5/16/2018	2.0	140	88	0.61	7.89	270	1000	< 0.003	0.089	0.47	< 0.001	< 0.0005	< 0.005	0.0041	0.61	< 0.0005	< 0.01	< 0.0002	0.014	1.12	< 0.0025	< 0.002
	8/9/2018	1.4	160	120	0.65	7.24	220	1000	< 0.003	0.68	3.0	< 0.001	0.0008	< 0.005	0.0053	0.65	0.0012	< 0.01	< 0.0002	0.013	1.48	< 0.0025	< 0.002
	5/1/2019	2.3	110	60	0.62	7.08	200	730	NA	0.11	0.6	NA	< 0.0005	NA	0.0026	0.62	0.0011	< 0.01	< 0.0002	0.014	1.59	< 0.0025	< 0.002
	11/14/2019	1.8	120	83	0.55	7.43	150	890	NA	0.14	0.72	NA	< 0.0005	NA	0.0041	0.55	0.0021	< 0.01	< 0.0002	0.02	2.64	< 0.0025	< 0.002
	4/29/2020	1.2	100	110	0.62	7.08	320	950	NA	0.019	0.21	NA	< 0.0005	NA	0.0019	0.62	< 0.0005	< 0.01	< 0.0002	0.024	0.47	< 0.0025	< 0.002
	12/8/2020	0.7	86	94	0.67	7.26	200	650	NA	0.027	0.26	NA	< 0.0005	NA	0.0021	0.67	< 0.0005	< 0.01	< 0.0002	0.03	< 0.523	< 0.0025	< 0.002
	5/11/2021	1.0	99	130	0.72	7.26	230	820	< 0.003	0.024	0.25	< 0.001	< 0.0005	< 0.005	0.0019	0.72	< 0.0005	0.012	< 0.0002	0.032	1.59	< 0.0025	< 0.002
MW-12 (CL) down-gradient	11/19/2015	0.94	160	H 220	H 0.57	7.12	H 650	H 1400	< 0.003	0.10	0.180	^ < 0.001	< 0.00068	< 0.005	< 0.001	H 0.57	< 0.00063	0.023	H < 0.0002	0.0280	< 0.685	< 0.0025	< 0.002
	2/26/2016	0.42	130	200	0.40	7.96	530	1200	< 0.003	0.077	0.130	< 0.001	0.0016	< 0.005	< 0.001	0.40	0.0014	0.014	< 0.0002	0.0150	1.11	< 0.0025	< 0.002
	5/20/2016	0.65	150	200	0.49	7.28	550	1400	< 0.003	0.065	0.16	F1 < 0.001	0.00077	< 0.005	< 0.001	0.49	0.0016	0.013	< 0.0002	0.028	0.576	< 0.0025	< 0.002
	8/18/2016	0.69	170	200	0.49	7.06	620	1600	< 0.003	0.33	0.88	< 0.0013	0.007	< 0.005	< 0.001	0.49	0.0011	0.015	< 0.0002	0.011	3.68	< 0.0025	< 0.002
	11/18/2016	0.83	140	180	0.46	7.34	340	1300	< 0.003	0.23	0.67	< 0.001	0.0028	< 0.005	< 0.001	0.46	< 0.0005	0.017	< 0.0002	< 0.01	1.86	< 0.0025	< 0.002
	2/16/2017	0.48	140	190	0.37	7.54	630	1300	< 0.003	0.29	0.26	< 0.001	0.0057	< 0.005	0.0013	0.37	0.0042	0.010	< 0.0002	0.015	1.15	< 0.0025	< 0.002
	5/3/2017	0.49	120	190	0.37	7.47	500	1200	< 0.003	0.10	0.17	< 0.001	0.0022	< 0.005	< 0.001	0.17	0.0038	0.011	< 0.0002	0.017	0.518	< 0.0025	< 0.002
	6/22/2017	0.50	130	190	0.48	7.36	580	1400	< 0.003	0.025	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.48	0.00096	< 0.010	< 0.0002	0.028	0.376	< 0.0025	< 0.002
	8/29/2017	0.78	140	180	0.52	7.34	520	1400	< 0.003	0.02	0.095	< 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 0.0005	0.014	< 0.0002	0.024	0.529	< 0.0025	< 0.002
	11/10/2017	0.94	130	170	0.48	7.38	720	1200	< 0.003	0.50	0.45	< 0.001	0.0015	< 0.005	< 0.001	0.48	0.00097	0.018	< 0.0002	0.023	1.67	< 0.0025	< 0.002
	5/16/2018	0.46	100	180	0.47	8.12	370	1500	< 0.003	0.09	0.1	< 0.001	0.00052	< 0.005	< 0.001	0.47	0.00067	0.012	< 0.0002	0.021	0.741	< 0.0025	< 0.002
	8/9/2018	0.61	120	190	0.44	7.42	480	1300	< 0.003	0.12	0.15	< 0.001	0.00084	< 0.005	< 0.001	0.44	0.00072	< 0.010	< 0.0002	0.026	0.735	< 0.0025	< 0.002
	5/1/2019	0.4	100	170	0.38	7.68	330	1000	NA	0.04	0.13	NA	0.00054	< 0.005	< 0.001	0.38	0.0012	0.014	< 0.0002	0.011	0.666	< 0.0025	< 0.002
	11/14/2019	0.74	120	160	0.45	7.61	280	1100	NA	0.026	0.072	NA	< 0.0005	NA	< 0.001	0.45	< 0.0005	0.014	< 0.0002	0.027	0.568	< 0.0025	< 0.002
	4/29/2020	0.34	71	150	0.34	7.96	360	980	NA	0.003	0.034	NA	< 0.0005	NA	< 0.001	0.34	< 0.0005	0.012	< 0.0002	0.015	0.578	< 0.0025	< 0.002
	12/8/2020	0.61	92	160	0.56	7.36	320	990	NA	0.025	0.069	NA	< 0.0005	NA	< 0.001	0.56	< 0.0005	0.012	< 0.0002	0.027	< 0.476	< 0.0025	< 0.002
	5/13/2021	0.4	89	140	0.23	7.39	350	990	< 0.003	0.0025	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	0.017	< 0.0002	0.016	0.563	< 0.0025	< 0.002
MW-15 (CL) down-gradient	11/18/2015	1.5	270	H 210	H 0.53	6.55	H 1400	H 2400	< 0.003	0.03	0.096	^ < 0.001	< 0.00061	< 0.005	< 0.001	H 0.53	< 0.0005	0.042	H < 0.0002	0.035	< 0.599	< 0.0025	< 0.002
	2/25/2016	2.0	240	110	0.61	6.84	640	1700	< 0.003	0.025	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	0.61	< 0.0005	0.041	< 0.0002	0.035	0.870	0.045	< 0.002
	5/19/2016	2.7	320	240	0.53	6.83	1200	2800	< 0.003	0.04	0.097	< 0.001	0.00098	< 0.005	< 0.001	0.53	< 0.0005	0.044	< 0.0002	0.041	< 0.420	0.067	< 0.002
	8/18/2016	1.5	200	F1 170	0.54	6.96	660	1900	< 0.003	0.13	0.11	< 0.001	0.0041	< 0.005	< 0.001	0.54	< 0.0005	0.028	< 0.0002	0.027	< 0.672	0.061	< 0.002
	11/17/2016	1.3	120	180	0.47	6.91	560	1900	< 0.003	0.0033	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	0.47	< 0.0005	0.016	< 0.0002	0.018	< 0.570	0.078	< 0.002
	2/17/2017	1.9	200	190	0.43	7.24	670	1700	< 0.003	0.02	0.056	< 0.001	< 0.0005	< 0.005	< 0.0010	0.43	< 0.0005	0.025	< 0.0002	0.027	< 0.392	0.032	< 0.002
	5/4/2017	1.5	180	190	0.57	7.35	670	1700	< 0.003	0.011	0.049	< 0.001	< 0.0005	< 0.005	< 0.0010	0.57	< 0.0005	0.023	< 0.0002	0.023	< 0.456	0.034	< 0.002
	6/21/2017	1.6	180	200	0.56	7.30	530	1600	< 0.003	0.0093	0.054	< 0.001	< 0.0005	< 0.005	< 0.0010	0.56	< 0.0005	0.027	< 0.0002	0.03	< 0.347	0.019	< 0.002
	8/29/2017	2.2	190	200	0.53	6.87	540	1800	< 0.003	0.0018	0.044	< 0.001	< 0.0005	< 0.005	< 0.0010	0.53	< 0.0005	0.023	< 0.0002	0.032	< 0.377	0.0092	< 0.002
	11/10/2017	1.6	170	180	0.63	7.09	530	1500															

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash By-Pass Basin Ash Surge Basin.

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.2
	4/9/2021	6.96
	5/11/2021	3.24
	6/2/2021	3.8
	6/28/2021	4.3
MW-09	2/24/2021	16.9
	4/9/2021	5.73
	5/13/2021	0.49
	6/2/2021	2.37
	6/29/2021	4.53
MW-19	2/22/2021	0.56
	4/9/2021	4.25
	5/10/2021	1.8
	6/2/2021	5.77
	6/29/2021	8.79
MW-08	2/23/2021	47.3
	4/9/2021	23.05
	5/11/2021	8.93
	6/3/2021	11.11
	6/29/2021	5.48
MW-11	2/25/2021	35.1
	4/9/2021	41.53
	5/13/2021	14.7
	6/3/2021	14.92
	6/29/2021	40.48
MW-12	2/25/2021	26.5
	4/9/2021	66.11
	5/13/2021	5.17
	6/3/2021	106.47
	6/29/2021	21.4
MW-15	2/24/2021	64.9
	4/9/2021	16.8
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
MW-17	2/24/2021	42.0
	4/8/2021	17.1
	5/12/2021	10.9
	6/3/2021	38.15
	6/28/2021	29.15
MW-18	2/22/2021	3.4
	4/9/2021	4.62
	5/10/2021	2.28
	6/3/2021	2.38
	6/29/2021	3.96



## DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

Regulated Unit(s): Former Ash Basin (IEPA ID No. W1798010008-05)

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, Powerton Station, Pekin, IL. Former Ash Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium	
MW-01 up-gradient	11/16/2015	1.0	98	44	0.17	7.07	93	530	< 0.003	< 0.001	0.057	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.17	* < 0.0005	< 0.01	< 0.0002	< 0.0050	0.744	< 0.0025	* < 0.002	
	2/25/2016	0.2	110	42	0.16	7.23	54	460	< 0.003	0.0025	0.053	< 0.001	< 0.0005	< 0.005	0.0014	0.16	0.0019	< 0.01	< 0.0002	< 0.005	< 0.722	0.0029	< 0.002	
	5/20/2016	0.34	100	44	0.17	6.95	65	430	< 0.003	0.0081	0.062	< 0.001	< 0.0005	0.007	0.0053	0.17	0.011	< 0.01	< 0.0002	< 0.005	< 0.953	< 0.0025	< 0.002	
	8/17/2016	0.27	78	39	0.25	7.16	50	530	< 0.003	0.0014	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	0.0014	< 0.01	< 0.0002	0.0057	< 0.491	< 0.0025	< 0.002	
	11/16/2016	0.18	97	39	0.21	7.22	32	500	< 0.003	0.0051	0.056	< 0.001	< 0.0005	< 0.005	0.0044	0.21	0.0082	< 0.01	< 0.0002	0.0059	< 0.618	< 0.0025	< 0.002	
	2/14/2017	0.18	120	55	0.17	7.30	60	550	< 0.003	0.0041	0.056	< 0.001	< 0.0005	< 0.005	0.0045	0.17	0.0076	< 0.01	< 0.0002	0.0056	< 0.837	< 0.0025	< 0.002	
	5/3/2017	0.19	86	66	0.16	7.41	45	460	< 0.003	0.0015	0.045	< 0.001	< 0.0005	< 0.005	0.0033	0.16	0.0067	< 0.01	< 0.0002	< 0.005	0.574	< 0.0025	< 0.002	
	6/21/2017	0.18	85	58	0.18	7.60	47	540	< 0.003	< 0.001	0.040	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.418	< 0.0025	< 0.002	
	8/25/2017	0.56	86	41	0.18	7.41	63	490	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	0.0059	0.775	< 0.0025	< 0.002	
	11/8/2017	0.57	130	38	0.12	6.69	61	640	< 0.003	< 0.001	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	< 0.0005	< 0.01	< 0.0002	< 0.005	0.343	< 0.0025	< 0.002	
	5/17/2018	0.15	88	50	0.12	6.70	48	540	< 0.003	< 0.001	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	0.00068	< 0.01	< 0.0002	< 0.005	< 0.396	< 0.0025	< 0.002	
	8/8/2018	0.14	86	48	0.13	6.84	43	430	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.579	< 0.0025	< 0.002	
	4/30/2019	0.07	78	54	0.17	7.20	27	450	< 0.003	0.0014	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	0.0017	< 0.01	< 0.0002	< 0.005	< 0.656	< 0.0025	< 0.002	
	8/26/2019	0.57	100	39	0.13	7.15	71	550	< 0.003	< 0.001	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.01	< 0.0002	< 0.005	0.802	< 0.0025	< 0.002	
	2/24/2020	0.28	87	53	0.21	7.19	34	410	< 0.003	< 0.001	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	0.00057	< 0.01	< 0.0002	< 0.005	< 0.478	< 0.0025	< 0.002	
4/28/2020	0.33	110	46	0.19	NA	41	470	NA	< 0.001	0.051	NA	NA	< 0.005	< 0.001	0.19	< 0.0005	NA	NA	< 0.005	0.628	< 0.0025	NA		
12/7/2020	0.59	100	54	0.25	7.22	55	640	NA	< 0.001	0.058	NA	NA	< 0.005	< 0.001	0.25	< 0.0005	NA	NA	0.0052	< 0.542	< 0.0025	NA		
5/11/2021	0.21	85	51	0.21	7.52	37	450	< 0.003	< 0.001	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	< 0.01	< 0.0002	0.01	< 0.521	< 0.0025	< 0.002		
MW-10 up-gradient	6/22/2017	0.46	100	48	0.19	6.81	54	1.0	< 0.003	0.0023	0.250	< 0.001	< 0.0005	< 0.005	0.008	0.19	0.003	< 0.01	< 0.0002	< 0.005	0.408	0.0042	< 0.002	
	8/24/2017	0.32	93	51	0.18	7.14	57	480	< 0.003	0.0020	0.220	< 0.001	< 0.0005	< 0.005	0.007	0.18	0.003	< 0.01	< 0.0002	< 0.005	0.564	0.0044	< 0.002	
	11/9/2017	0.36	98	48	0.18	6.78	64	500	< 0.003	< 0.0010	0.220	< 0.001	< 0.0005	< 0.005	0.004	0.18	< 0.001	< 0.01	< 0.0002	< 0.005	1.020	0.0034	< 0.002	
	5/16/2018	0.42	93	44	0.19	7.64	80	530	< 0.003	0.0010	0.220	< 0.001	< 0.0005	< 0.005	0.021	0.19	0.001	< 0.01	< 0.0002	< 0.005	1.550	0.0050	< 0.002	
	8/8/2018	0.39	99	58	0.19	7.10	60	550	< 0.003	0.0012	0.220	< 0.001	< 0.0005	< 0.005	0.014	0.19	0.001	< 0.01	< 0.0002	< 0.005	< 0.551	0.0062	< 0.002	
	10/30/2018	0.34	110	49	0.22	7.65	49	510	< 0.003	0.0110	0.410	< 0.001	0.0008	0.024	0.047	0.22	0.023	0.02	< 0.0002	< 0.005	3.00	0.0046	< 0.002	
	2/26/2019	0.39	150	48	0.21	6.77	36	540	< 0.003	0.0220	0.590	< 0.005	0.0015	0.063	0.081	0.21	0.036	0.03	< 0.0002	0.007	4.130	0.0041	< 0.002	
	5/1/2019	0.35	92	50	0.22	6.81	30	470	< 0.003	0.0023	0.270	< 0.001	< 0.0005	< 0.005	0.011	0.22	0.0028	< 0.01	< 0.0002	< 0.005	1.330	0.0037	< 0.002	
	8/26/2019	0.30	84	48	0.19	7.09	30	410	< 0.003	0.0017	0.190	< 0.001	< 0.001	< 0.005	0.007	0.19	0.0016	< 0.01	< 0.0002	< 0.005	1.540	0.0050	< 0.002	
	2/25/2020	1.40	110	45	0.23	6.82	59	500	< 0.003	0.0033	0.280	< 0.001	< 0.0005	0.0086	0.011	0.23	0.0046	< 0.01	< 0.0002	< 0.005	1.07	0.0058	< 0.002	
	4/28/2020	1.00	110	41	0.24	6.80	64	550	NA	0.0022	0.250	NA	NA	< 0.005	0.0065	0.24	0.0017	NA	NA	< 0.005	0.639	0.0054	NA	
	12/8/2020	2.40	120	44	0.26	7.11	71	550	NA	0.0015	0.280	NA	NA	< 0.005	0.0089	0.26	0.0023	NA	NA	< 0.005	1.76	0.0031	NA	
5/11/2021	0.64	100	52	0.24	7.01	59	540	< 0.003	0.0011	0.260	< 0.001	< 0.001	< 0.005	0.008	0.24	0.0009	< 0.01	< 0.0002	< 0.005	1.42	0.0049	< 0.002		
MW-02 down-gradient	6/20/2017	0.33	90	55	0.19	7.01	47	500	< 0.003	0.0012	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002	
	8/23/2017	V	1.30	86	49	0.19	7.40	61	440	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	< 0.01	< 0.0002	< 0.005	0.833	< 0.0025	< 0.002
	11/7/2017	3.70	98	46	0.17	7.10	88	550	< 0.003	0.0014	0.091	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.309	0.0027	< 0.002	
	5/15/2018	0.22	80	45	0.23	7.71	54	500	< 0.003	0.0013	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	< 0.01	0.0004	< 0.005	< 0.408	< 0.0025	< 0.002	
	8/7/2018	1.50	89	54	0.15	7.09	51	530	< 0.003	0.0016	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	0.15	< 0.0005	< 0.01	< 0.0002	< 0.005	0.622	< 0.0025	< 0.002	
	10/30/2018	0.23	86	43	0.17	7.83	34	480	< 0.003	0.0015	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	< 0.005	0.564	< 0.0025	< 0.002	
	2/26/2019	0.07	69	49	0.16	7.82	23	400	< 0.003	0.0026	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.16	0.0013	< 0.01	< 0.0002	< 0.005	< 0.425	< 0.0025	< 0.002	
	4/30/2019	0.12	79	48	0.16	7.60	30	440	< 0.003	0.0013	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.16	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.441	< 0.0025	< 0.002	
	8/26/2019	0.51	86	50	0.18	7.13	32	400	< 0.003	0.0011	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	< 0.005	1.180	< 0.0025	< 0.002	
	2/24/2020	0.33	89	53	0.20	7.43	37	410	< 0.003	0.0011	0.061	< 0.001	< 0.0005	< 0.005	< 0.001	0.20	< 0.0005	< 0.01	< 0.0002	< 0.005	0.485	< 0.0025	< 0.002	
	4/28/2020	0.33	90	50	0.20	7.32	41	430	NA	0.0016	0.06	NA	NA	< 0.005	< 0.001	0.20	< 0.0005	NA	NA	< 0.005	< 0.54	< 0.0025	NA	
12/9/2020	0.66	100	41	0.15	7.78	64	430	NA	< 0.001	0.076	NA	NA	< 0.005	< 0.001	0.15	< 0.0005	NA	NA	0.0059	< 0.471	< 0.0025	NA		
5/11/2021	0.23	79	51	0.21	7.70	37	370	<																

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Former Ash Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-03 down-gradient	6/20/2017	0.4	76	54	0.29	7.26	49	480	< 0.003	0.0013	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.325	< 0.0025	< 0.002
	8/23/2017	0.40	79	52	0.28	7.44	52	430	< 0.003	0.0010	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	< 0.01	< 0.0002	< 0.005	1.200	< 0.0025	< 0.002
	11/7/2017	0.31	79	62	0.26	7.04	61	460	< 0.003	0.0013	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	0.26	< 0.0005	< 0.01	< 0.0002	< 0.005	0.588	< 0.0025	< 0.002
	5/15/2018	0.35	87	66	0.27	7.53	77	520	< 0.003	0.0010	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.489	< 0.0025	< 0.002
	8/7/2018	0.40	82	67	0.22	6.60	49	500	< 0.003	0.0015	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	0.22	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	10/30/2018	0.20	74	44	0.25	7.84	26	400	< 0.003	0.0014	0.056	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.354	< 0.0025	< 0.002
	2/26/2019	0.06	74	56	0.24	7.49	25	410	< 0.003	0.0013	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	0.0007	< 0.01	< 0.0002	< 0.005	< 0.399	< 0.0025	< 0.002
	4/30/2019	0.28	74	49	0.22	7.17	38	390	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	0.22	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.668	< 0.0025	< 0.002
	8/26/2019	0.31	75	50	0.26	7.17	14	380	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.26	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.444	< 0.0025	< 0.002
	2/24/2020	0.33	87	53	0.22	7.10	65	470	< 0.003	< 0.001	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	0.22	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.400	< 0.0025	< 0.002
	4/28/2020	0.24	86	46	0.22	7.03	79	410	NA	0.0013	0.066	NA	NA	< 0.005	< 0.001	0.22	< 0.0005	NA	NA	< 0.005	< 0.498	0.0036	NA
	12/9/2020	0.86	92	45	0.28	7.46	60	390	NA	< 0.001	0.086	NA	NA	< 0.005	< 0.001	0.28	< 0.0005	NA	NA	< 0.005	< 0.432	< 0.0025	NA
5/11/2021	0.22	75	49	0.21	7.33	38	390	< 0.003	< 0.001	0.070	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.519	< 0.0025	< 0.002	
MW-04 down-gradient	6/20/2017	0.5	77	55	0.29	7.45	53	480	< 0.003	< 0.001	0.0025	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.343	< 0.0025	< 0.002
	8/28/2017	V	0.73	90	0.33	7.13	110	680	< 0.003	< 0.001	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	< 0.01	< 0.0002	0.013	< 0.246	< 0.0025	< 0.002
	11/7/2017	0.60	110	94	0.24	6.80	130	650	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.332	0.0092	< 0.002
	5/15/2018	0.68	87	66	0.27	7.63	100	630	< 0.003	< 0.001	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	0.27	< 0.0005	< 0.01	< 0.0002	< 0.005	0.661	< 0.0025	< 0.002
	8/7/2018	0.79	84	71	0.32	6.72	49	510	< 0.003	0.0011	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	< 0.01	< 0.0002	0.006	< 0.334	< 0.0025	< 0.002
	10/30/2018	0.54	100	80	0.24	7.55	91	690	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	< 0.01	< 0.0002	< 0.005	0.423	< 0.0025	< 0.002
	2/26/2019	0.38	79	55	0.25	7.18	52	490	< 0.003	0.0013	0.033	< 0.001	< 0.0005	< 0.005	0.001	0.25	0.0012	< 0.01	< 0.0002	< 0.005	0.366	< 0.0025	< 0.002
	4/30/2019	0.36	74	48	0.25	7.08	35	380	< 0.003	< 0.001	0.026	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.684	< 0.0025	< 0.002
	8/26/2019	0.64	91	60	0.24	7.08	14	490	< 0.003	< 0.001	0.032	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	< 0.01	< 0.0002	0.008	1.090	< 0.0025	< 0.002
	2/24/2020	0.34	81	49	0.20	7.05	67	440	< 0.003	< 0.001	0.024	< 0.001	< 0.0005	< 0.005	< 0.001	0.20	< 0.0005	< 0.01	< 0.0002	< 0.005	0.595	< 0.0025	< 0.002
	4/28/2020	0.55	76	52	0.27	7.03	47	380	NA	< 0.001	0.025	NA	NA	< 0.005	< 0.001	0.27	< 0.0005	NA	NA	< 0.005	< 0.465	< 0.0025	NA
	12/9/2020	0.57	92	88	0.32	7.10	94	580	NA	< 0.001	0.034	NA	NA	< 0.005	< 0.001	0.32	< 0.0005	NA	NA	0.0076	< 0.411	< 0.0025	NA
5/11/2021	0.61	77	44	0.33	7.22	76	410	< 0.003	< 0.001	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	< 0.01	< 0.0002	< 0.005	0.533	< 0.0025	< 0.002	
MW-05 down-gradient	5/17/2016	0.70	100	85	0.35	7.08	120	660	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.373	< 0.0025	< 0.002
	8/16/2016	0.69	110	97	0.30	6.85	150	830	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	0.30	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.452	< 0.0025	< 0.002
	11/15/2016	0.93	94	66	0.23	6.96	77	620	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	< 0.01	< 0.0002	< 0.005	0.449	< 0.0025	< 0.002
	2/14/2017	0.79	100	100	0.25	7.25	170	760	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	0.00091	< 0.01	< 0.0002	< 0.005	< 0.359	< 0.0025	< 0.002
	5/1/2017	0.70	100	92	0.28	7.60	170	710	< 0.003	< 0.001	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	< 0.01	< 0.0002	0.0066	< 0.439	< 0.0025	< 0.002
	6/20/2017	0.64	89	63	0.28	7.32	78	550	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.365	< 0.0025	< 0.002
	8/28/2017	0.62	110	120	0.33	7.05	210	870	< 0.003	< 0.001	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	< 0.01	< 0.0002	0.0085	0.381	< 0.0025	< 0.002
	11/7/2017	0.51	99	110	0.31	6.87	160	990	< 0.003	< 0.001	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	5/15/2018	0.61	130	89	0.29	7.70	210	910	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.390	< 0.0025	< 0.002
	8/7/2018	0.49	110	120	0.32	6.56	180	890	< 0.003	< 0.001	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	< 0.01	< 0.0002	0.0069	0.523	< 0.0025	< 0.002
	4/30/2019	0.56	84	73	0.36	6.96	120	590	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.36	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.709	< 0.0025	< 0.002
	8/26/2019	0.57	110	75	0.29	7.01	110	660	< 0.003	< 0.001	0.050	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	< 0.01	< 0.0002	0.0067	0.651	< 0.0025	< 0.002
2/24/2020	0.54	110	70	0.36	6.90	120	H 700	< 0.003	< 0.001	0.057	< 0.001	< 0.0005	< 0.005	< 0.001	0.36	< 0.0005	< 0.01	< 0.0002	0.0061	0.506	< 0.0025	< 0.002	
4/28/2020	0.49	110	56	0.37	6.87	130	620	NA	0.001	0.052	NA	NA	< 0.005	< 0.001	0.37	< 0.0005	NA	NA	0.0074	0.508	< 0.0025	NA	
12/9/2020	0.53	98	78	0.31	6.91	110	670	NA	< 0.001	0.05	NA	NA	< 0.005	< 0.001	0.31	< 0.0005	NA	NA	0.0072	0.569	< 0.0025	NA	
5/11/2021	0.5	83	52	0.38	7.20	100	530	< 0.003	< 0.001	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	0.38	< 0.0005	< 0.01	< 0.0002	0.0062	< 0.525	< 0.0025	< 0.002	

Notes: All units are in mg/l except pH is in standard units.

V- Serial dilution exceeds control limits.

H- Sample was prepped or analyzed beyond specified holding time

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

\* - LCS or LCSD is outside acceptance limits.

^ - Denotes instrument related QC exceeds the control limits

NA - Not Analyzed

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Former Ash Basin.

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.2
	4/9/2021	6.96
	5/10/2021	3.24
	6/2/2021	3.8
	6/28/2021	4.3
MW-10	2/23/2021	257.7
	4/9/2021	54.91
	5/11/2021	24.74
	6/2/2021	6.02
	6/28/2021	14.11
MW-02	2/22/2021	19.6
	4/8/2021	4.55
	5/11/2021	1.82
	6/2/2021	2.06
	6/28/2021	2.67
MW-03	2/22/2021	8.20
	4/8/2021	4.0
	5/11/2021	2.68
	6/2/2021	3.63
	6/28/2021	3.32
MW-04	2/22/2021	4.20
	4/8/2021	4.05
	5/11/2021	4.33
	6/2/2021	2.12
	6/28/2021	8.21
MW-05	2/22/2021	1.72
	4/8/2021	4.0
	5/11/2021	1.82
	6/2/2021	1.88
	6/28/2021	3.49

## **DATA SUMMARY POSTING**

Station: Midwest Generation Powerton Generating Station

Regulated Unit(s): Metals Cleaning Basin (IEPA ID No. W1798010008-03)

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 through 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, Powerton Station, Pekin, IL. Metals Cleaning Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-15 (CL) down-gradient	11/18/2015	1.5	270	H 210	H 0.53	6.55	H 1400	H 2400	< 0.003	0.03	0.096	^ < 0.001	0.00061	< 0.005	< 0.001	H 0.53	< 0.0005	0.042	H < 0.0002	0.023	< 0.599	0.0065	< 0.002
	2/25/2016	2.0	240	110	0.61	6.84	640	1700	< 0.003	0.025	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	0.61	< 0.0005	0.041	< 0.0002	0.035	0.870	0.045	< 0.002
	5/19/2016	2.7	320	240	0.53	6.83	1200	2800	< 0.003	0.04	0.097	< 0.001	0.00098	< 0.005	< 0.001	0.53	< 0.0005	0.044	< 0.0002	0.041	< 0.420	0.0067	< 0.002
	8/18/2016	1.5	200	F1 170	0.54	6.96	660	1900	< 0.003	0.13	0.11	< 0.001	0.0041	< 0.005	< 0.001	0.54	< 0.0005	0.028	< 0.0002	0.027	< 0.672	0.0061	< 0.002
	11/17/2016	1.3	120	180	0.47	6.91	560	1900	< 0.003	0.0033	0.031	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.47	< 0.0005	0.016	< 0.0002	0.018	< 0.570	0.0078	< 0.002
	2/17/2017	1.9	200	190	0.43	7.24	670	1700	< 0.003	0.02	0.056	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.43	< 0.0005	0.025	< 0.0002	0.027	< 0.392	0.0032	< 0.002
	5/4/2017	1.5	180	190	0.57	7.35	670	1700	< 0.003	0.011	0.049	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.57	< 0.0005	0.023	< 0.0002	0.023	< 0.456	0.0034	< 0.002
	6/21/2017	1.6	180	200	0.56	7.30	530	1600	< 0.003	0.0093	0.054	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.56	< 0.0005	0.027	< 0.0002	0.03	< 0.347	0.019	< 0.002
	8/29/2017	2.2	190	200	0.53	6.87	540	1800	< 0.003	0.0018	0.044	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.53	< 0.0005	0.023	< 0.0002	0.032	< 0.377	0.0092	< 0.002
	11/10/2017	1.6	170	180	0.63	7.09	530	1500	< 0.003	0.0063	0.046	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.63	< 0.0005	0.025	< 0.0002	0.02	< 0.313	0.016	< 0.002
	5/17/2018	2.3	200	160	0.5	6.75	680	1800	< 0.003	0.0081	0.05	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.5	< 0.0005	0.029	< 0.0002	0.03	< 0.397	0.077	< 0.002
	8/9/2018	2.3	200	200	0.48	7.06	520	1700	< 0.003	0.0083	0.048	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.48	< 0.0005	0.026	< 0.0002	0.033	0.566	0.06	< 0.002
	5/2/2019	1.5	180	200	0.52	6.89	420	1500	NA	0.0045	0.052	NA	< 0.0005	NA	< 0.0010	0.52	< 0.0005	0.027	< 0.0002	0.023	< 0.424	< 0.0025	< 0.002
	11/14/2019	1.8	170	170	0.5	7.24	260	1300	NA	0.0044	0.053	NA	< 0.0005	NA	< 0.0010	0.5	< 0.0005	0.029	< 0.0002	0.025	< 0.475	< 0.0025	< 0.002
	4/29/2020	1.2	160	200	0.58	6.90	370	1300	NA	0.0036	0.06	NA	< 0.0005	NA	< 0.0010	0.58	< 0.0005	0.027	< 0.0002	0.023	0.578	< 0.0025	< 0.002
12/8/2020	1.5	170	200	0.55	7.04	540	1400	NA	0.02	0.1	NA	0.00059	NA	0.0012	0.55	< 0.0005	0.035	< 0.0002	0.02	0.626	0.012	< 0.002	
5/12/2021	1.3	180	180	0.54	6.97	520	1500	< 0.003	0.0048	0.065	< 0.001	< 0.0005	< 0.0050	< 0.0010	0.54	< 0.0005	0.026	< 0.0002	0.014	< 0.648	0.0071	< 0.002	
MW-17 (CL) up-gradient	11/19/2015	1.6	210	H 230	H 0.43	7.11	H 850	H 1800	< 0.003	0.0028	0.14	^ < 0.001	< 0.0005	< 0.005	< 0.001	H 0.43	0.0012	0.019	H < 0.0002	0.035	< 0.790	0.012	< 0.002
	2/22/2016	1.8	290	280	0.55	7.19	960	2100	< 0.003	0.021	0.051	< 0.001	< 0.0005	< 0.005	0.0012	0.55	< 0.0005	0.038	< 0.0002	0.093	1.07	< 0.0025	< 0.002
	5/18/2016	1.4	200	230	0.64	7.02	700	1800	< 0.003	0.32	0.12	< 0.001	< 0.0005	0.0011	0.12	0.64	< 0.0005	0.026	< 0.0002	0.12	8.27	< 0.0025	0.0028
	8/15/2016	1.1	220	220	0.60	7.08	860	2100	< 0.003	0.34	0.12	< 0.001	0.001	< 0.005	0.0016	0.6	< 0.0005	0.022	< 0.0002	0.1	0.606	< 0.0025	0.0031
	11/14/2016	1.5	200	210	0.56	7.26	560	2000	< 0.003	0.19	0.073	< 0.001	0.00051	< 0.005	0.0012	0.56	< 0.0005	0.022	< 0.0002	0.042	3.76	< 0.0025	0.0021
	2/13/2017	1.6	190	230	0.56	6.84	770	1600	< 0.003	0.35	0.16	< 0.001	0.00093	< 0.005	0.0014	0.56	0.00079	0.019	< 0.0002	0.088	2.08	< 0.0025	0.0025
	5/4/2017	1.2	170	210	0.61	7.29	720	1500	< 0.003	0.24	0.39	0.0013	0.0023	< 0.005	0.0014	0.61	0.00066	0.016	< 0.0002	0.036	1.91	< 0.0025	0.0065
	6/22/2017	0.95	150	230	0.72	7.38	580	1600	< 0.003	0.41	0.13	< 0.001	0.0007	< 0.005	0.0012	0.72	0.0011	0.022	< 0.0002	0.11	1.21	< 0.0025	0.0022
	8/29/2017	1.4	190	230	0.64	7.19	640	1900	< 0.003	0.24	0.092	< 0.001	< 0.0005	< 0.005	< 0.001	0.64	0.00058	0.021	< 0.0002	0.13	3.32	< 0.0025	0.0025
	11/6/2017	1.7	190	240	0.62	7.27	840	1800	< 0.003	0.17	0.38	< 0.001	0.0022	< 0.005	0.0015	0.62	< 0.0005	< 0.01	< 0.0002	0.019	2.54	< 0.0025	0.0075
	5/14/2018	1.6	170	220	0.6	7.79	800	1700	< 0.003	0.42	0.17	< 0.001	0.002	< 0.005	0.0029	0.6	0.0021	0.015	< 0.0002	0.13	2.03	< 0.0025	0.0068
	8/6/2018	1.3	170	230	0.6	7.12	620	1600	NA	0.087	0.055	NA	0.00094	NA	0.0015	0.6	< 0.0005	0.019	< 0.0002	0.084	1.34	< 0.0025	0.0023
	4/29/2019	0.98	150	190	0.66	7.25	660	1500	NA	0.042	0.04	NA	0.00052	NA	< 0.001	0.66	0.00069	0.015	< 0.0002	0.06	0.517	< 0.0025	< 0.002
	11/13/2019	1.9	230	600	0.55	7.16	730	2300	NA	0.088	0.1	NA	0.0015	NA	0.0011	0.55	0.00093	0.021	< 0.0002	0.058	0.643	< 0.0025	0.0029
	4/27/2020	1.2	150	170	0.79	7.27	520	1300	NA	0.026	0.036	NA	< 0.0005	NA	< 0.001	0.79	0.00081	0.021	< 0.0002	0.075	0.498	< 0.0025	< 0.002
12/7/2020	1.3	140	160	0.8	7.22	430	1100	NA	0.08	0.05	NA	0.001	NA	< 0.001	0.8	0.0011	0.022	< 0.0002	0.056	< 0.438	< 0.0025	< 0.002	
4/8/2021	1.1	140	160	0.71	7.75	480	1200	< 0.003	0.0061	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	0.71	< 0.0005	0.019	< 0.0002	0.057	< 0.485	< 0.0025	< 0.002	
5/12/2021	1.1	130	160	0.75	7.52	470	1100	< 0.003	0.0042	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	0.75	< 0.0005	0.017	< 0.0002	0.051	< 0.398	< 0.0025	< 0.002	
6/3/2021	0.4	150	96	0.74	7.27	500	1300	< 0.003	0.011	0.029	< 0.001	< 0.0005	< 0.005	< 0.001	0.74	< 0.0005	0.017	< 0.0002	0.055	< 0.463	< 0.0025	< 0.002	
6/28/2021	B	1.1	150	150	0.69	7.31	500	1200	< ^+ 0.003	0.018	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	0.69	< 0.0005	0.018	< 0.0002	0.05	DNYA	< 0.0025	< 0.002
MW-14 (CL) down-gradient	4/8/2021	2.1	200	98	1.1	7.33	630	1600	< 0.003	0.0028	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	1.1	< 0.0005	0.028	< 0.0002	0.035	< 0.605	0.029	0.0022
	5/12/2021	2.6	210	100	1.1	7.13	640	1700	< 0.003	0.0047	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	1.1	< 0.0005	0.028	< 0.0002	0.034	< 0.43	0.0039	0.0028
	6/3/2021	2.1	200	26	1.0	6.79	590	1600	< 0.003	0.0025	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	1	< 0.0005	0.025	< 0.0002	0.028	< 0.357	0.094	0.0025
	6/28/2021	B	2.0	210	0.99	6.88	570	1700	< ^+ 0.003	0.014	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	0.99	< 0.0005	0.028	< 0.0002	0.03	DNYA	0.034	0.0023
MW-20 (CL) down-gradient	4/8/2021	2.2	310	150	0.20	7.18	850	2200	< 0.003	0.0027	0.19	< 0.001	< 0.0005	< 0.005	0.0015	0.20	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.673	< 0.0025	< 0.002
	5/12/2021	0.43	130	150	0.19	6.90	850	2200	< 0.003	0.019	0.21	< 0.001	< 0.0005	< 0.005	0.0039	0.19	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.79	< 0.0025	< 0.002
	6/3/2021	1.5	260	26	0.12	6.35	500	1500	< 0.003	< 0.001	0.085	< 0.001	&										

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Metals Cleaning Basin.

Well	Date	Turbidity (NTU)
MW-15	2/24/2021	64.9
	4/9/2021	16.8
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
MW-17	2/24/2021	42.0
	4/8/2021	17.1
	5/12/2021	10.9
	6/3/2021	38.15
	6/28/2021	29.15
MW-14	2/24/2021	13.9
	4/8/2021	5.39
	5/12/2021	1.22
	6/3/2021	2.63
	6/28/2021	3.74
MW-20	3/12/2021	343.3
	4/8/2021	14.45
	5/12/2021	3.89
	6/3/2021	6.01
	6/28/2021	8.28
MW-21	3/12/2021	49.2
	4/8/2021	5.88
	5/12/2021	26.09
	6/3/2021	17.61
	6/28/2021	6.33

## ANALYTICAL REPORT

Eurofins TestAmerica, Chicago  
2417 Bond Street  
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Laboratory Job ID: 500-197405-1  
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:  
5/4/2021 2:09:16 PM

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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: Powerton CCR MCB

Job ID: 500-197405-1

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## Job ID: 500-197405-1

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Laboratory: Eurofins TestAmerica, Chicago

### Narrative

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#### Job Narrative 500-197405-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/9/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 18.1° C.

#### Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-13 (500-197405-1), MW-17 (500-197405-3) and MCB DUPLICATE (500-197405-6). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

#### Metals

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

#### General Chemistry

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



# Detection Summary

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

Job ID: 500-197405-1

## Client Sample ID: MW-13

## Lab Sample ID: 500-197405-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.021		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.21		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.6		0.050		mg/L	1		6020A	Total Recoverable
Calcium	380		2.0		mg/L	10		6020A	Total Recoverable
Molybdenum	0.025		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	2700		10		mg/L	1		SM 2540C	Total/NA
Chloride	130		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.40		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	7.5	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	1500		250		mg/L	50		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-14

## Lab Sample ID: 500-197405-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.028		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0028		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.036		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.1		0.50		mg/L	10		6020A	Total Recoverable
Calcium	200		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.035		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.029		0.0025		mg/L	1		6020A	Total Recoverable
Thallium	0.0022		0.0020		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1600		10		mg/L	1		SM 2540C	Total/NA
Chloride	98		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	1.1		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	7.0	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	630		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-17

## Lab Sample ID: 500-197405-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.019		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0061		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.028		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.1		0.050		mg/L	1		6020A	Total Recoverable
Calcium	140		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.057		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1200		10		mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Detection Summary

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

Job ID: 500-197405-1

## Client Sample ID: MW-17 (Continued)

## Lab Sample ID: 500-197405-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	160		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.71		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	7.2	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	480		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-20

## Lab Sample ID: 500-197405-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0027		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.19		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.2		0.50		mg/L	10		6020A	Total Recoverable
Calcium	310		2.0		mg/L	10		6020A	Total Recoverable
Cobalt	0.0015		0.0010		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	2200		10		mg/L	1		SM 2540C	Total/NA
Chloride	150		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	6.8	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	850		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-21

## Lab Sample ID: 500-197405-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.025		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.34		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.48		0.10		mg/L	2		6020A	Total Recoverable
Calcium	140		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0042		0.0010		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	770		10		mg/L	1		SM 2540C	Total/NA
Chloride	34		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.25		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	6.7	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	26		5.0		mg/L	1		SM 4500 SO4 E	Total/NA

## Client Sample ID: MCB DUPLICATE

## Lab Sample ID: 500-197405-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.020		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.18		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.7		0.050		mg/L	1		6020A	Total Recoverable
Calcium	360		2.0		mg/L	10		6020A	Total Recoverable
Molybdenum	0.024		0.0050		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

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# Detection Summary

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

Job ID: 500-197405-1

**Client Sample ID: MCB DUPLICATE (Continued)**

**Lab Sample ID: 500-197405-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	2400		10		mg/L	1		SM 2540C	Total/NA
Chloride	120		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.39		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	7.5	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	1400		250		mg/L	50		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Method Summary

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

Job ID: 500-197405-1

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

#### Protocol References:

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

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 500-197405-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-197405-1	MW-13	Water	04/08/21 09:25	04/14/21 09:25	
500-197405-2	MW-14	Water	04/08/21 11:00	04/09/21 09:30	
500-197405-3	MW-17	Water	04/08/21 10:19	04/14/21 09:25	
500-197405-4	MW-20	Water	04/08/21 11:44	04/09/21 09:30	
500-197405-5	MW-21	Water	04/08/21 12:47	04/09/21 09:30	
500-197405-6	MCB DUPLICATE	Water	04/08/21 00:00	04/14/21 09:25	

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

# Client Sample Results

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

Job ID: 500-197405-1

**Client Sample ID: MW-13**  
Date Collected: 04/08/21 09:25  
Date Received: 04/14/21 09:25

**Lab Sample ID: 500-197405-1**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/18/21 18:38	04/19/21 16:17	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		04/18/21 18:38	04/20/21 19:45	1
<b>Arsenic</b>	<b>0.021</b>		0.0010		mg/L		04/18/21 18:38	04/20/21 19:45	1
<b>Barium</b>	<b>0.21</b>		0.0025		mg/L		04/18/21 18:38	04/20/21 19:45	1
Beryllium	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 19:45	1
<b>Boron</b>	<b>2.6</b>		0.050		mg/L		04/18/21 18:38	04/20/21 19:45	1
Cadmium	<0.00050		0.00050		mg/L		04/18/21 18:38	04/20/21 19:45	1
<b>Calcium</b>	<b>380</b>		2.0		mg/L		04/18/21 18:38	04/21/21 13:04	10
Chromium	<0.0050		0.0050		mg/L		04/18/21 18:38	04/20/21 19:45	1
Cobalt	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 19:45	1
Lead	<0.00050		0.00050		mg/L		04/18/21 18:38	04/20/21 19:45	1
<b>Molybdenum</b>	<b>0.025</b>		0.0050		mg/L		04/18/21 18:38	04/20/21 19:45	1
Selenium	<0.0025		0.0025		mg/L		04/18/21 18:38	04/20/21 19:45	1
Thallium	<0.0020		0.0020		mg/L		04/18/21 18:38	04/20/21 19:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/15/21 10:35	04/16/21 10:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>2700</b>		10		mg/L			04/15/21 04:52	1
<b>Chloride</b>	<b>130</b>		10		mg/L			04/20/21 15:42	5
<b>Fluoride</b>	<b>0.40</b>		0.10		mg/L			05/03/21 12:08	1
<b>pH</b>	<b>7.5</b>	HF	0.2		SU			04/21/21 15:40	1
<b>Sulfate</b>	<b>1500</b>		250		mg/L			04/20/21 15:50	50

**Client Sample ID: MW-14**  
Date Collected: 04/08/21 11:00  
Date Received: 04/09/21 09:30

**Lab Sample ID: 500-197405-2**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lithium</b>	<b>0.028</b>		0.010		mg/L		04/12/21 17:35	04/13/21 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		04/12/21 17:35	04/13/21 20:43	1
<b>Arsenic</b>	<b>0.0028</b>		0.0010		mg/L		04/12/21 17:35	04/13/21 20:43	1
<b>Barium</b>	<b>0.036</b>		0.0025		mg/L		04/12/21 17:35	04/13/21 20:43	1
Beryllium	<0.0010		0.0010		mg/L		04/12/21 17:35	04/13/21 20:43	1
<b>Boron</b>	<b>2.1</b>		0.50		mg/L		04/12/21 17:35	04/16/21 11:57	10
Cadmium	<0.00050		0.00050		mg/L		04/12/21 17:35	04/13/21 20:43	1
<b>Calcium</b>	<b>200</b>		0.20		mg/L		04/12/21 17:35	04/13/21 20:43	1
Chromium	<0.0050		0.0050		mg/L		04/12/21 17:35	04/13/21 20:43	1
Cobalt	<0.0010		0.0010		mg/L		04/12/21 17:35	04/13/21 20:43	1
Lead	<0.00050		0.00050		mg/L		04/12/21 17:35	04/13/21 20:43	1
<b>Molybdenum</b>	<b>0.035</b>		0.0050		mg/L		04/12/21 17:35	04/13/21 20:43	1

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# Client Sample Results

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

Job ID: 500-197405-1

**Client Sample ID: MW-14**

Date Collected: 04/08/21 11:00

Date Received: 04/09/21 09:30

**Lab Sample ID: 500-197405-2**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.029		0.0025		mg/L		04/12/21 17:35	04/13/21 20:43	1
Thallium	0.0022		0.0020		mg/L		04/12/21 17:35	04/13/21 20:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/14/21 09:55	04/15/21 10:00	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			04/15/21 04:54	1
Chloride	98		10		mg/L			04/14/21 13:44	5
Fluoride	1.1		0.10		mg/L			05/03/21 12:29	1
pH	7.0	HF	0.2		SU			04/21/21 15:40	1
Sulfate	630		100		mg/L			04/20/21 15:47	20

**Client Sample ID: MW-17**

Date Collected: 04/08/21 10:19

Date Received: 04/14/21 09:25

**Lab Sample ID: 500-197405-3**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.019		0.010		mg/L		04/18/21 18:38	04/19/21 16:34	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		04/18/21 18:38	04/20/21 20:03	1
Arsenic	0.0061		0.0010		mg/L		04/18/21 18:38	04/20/21 20:03	1
Barium	0.028		0.0025		mg/L		04/18/21 18:38	04/20/21 20:03	1
Beryllium	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 20:03	1
Boron	1.1		0.050		mg/L		04/18/21 18:38	04/20/21 20:03	1
Cadmium	<0.00050		0.00050		mg/L		04/18/21 18:38	04/20/21 20:03	1
Calcium	140		0.20		mg/L		04/18/21 18:38	04/20/21 20:03	1
Chromium	<0.0050		0.0050		mg/L		04/18/21 18:38	04/20/21 20:03	1
Cobalt	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 20:03	1
Lead	<0.00050		0.00050		mg/L		04/18/21 18:38	04/20/21 20:03	1
Molybdenum	0.057		0.0050		mg/L		04/18/21 18:38	04/20/21 20:03	1
Selenium	<0.0025		0.0025		mg/L		04/18/21 18:38	04/20/21 20:03	1
Thallium	<0.0020		0.0020		mg/L		04/18/21 18:38	04/20/21 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/15/21 10:35	04/16/21 10:57	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			04/15/21 04:57	1
Chloride	160		10		mg/L			04/20/21 15:43	5
Fluoride	0.71		0.10		mg/L			05/03/21 12:35	1
pH	7.2	HF	0.2		SU			04/21/21 15:40	1
Sulfate	480		100		mg/L			04/20/21 15:49	20

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# Client Sample Results

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

Job ID: 500-197405-1

**Client Sample ID: MW-20**

**Lab Sample ID: 500-197405-4**

Date Collected: 04/08/21 11:44

Matrix: Water

Date Received: 04/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/12/21 17:35	04/13/21 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		04/12/21 17:35	04/13/21 20:46	1
<b>Arsenic</b>	<b>0.0027</b>		0.0010		mg/L		04/12/21 17:35	04/13/21 20:46	1
<b>Barium</b>	<b>0.19</b>		0.0025		mg/L		04/12/21 17:35	04/13/21 20:46	1
Beryllium	<0.0010		0.0010		mg/L		04/12/21 17:35	04/13/21 20:46	1
<b>Boron</b>	<b>2.2</b>		0.50		mg/L		04/12/21 17:35	04/16/21 12:00	10
Cadmium	<0.00050		0.00050		mg/L		04/12/21 17:35	04/13/21 20:46	1
<b>Calcium</b>	<b>310</b>		2.0		mg/L		04/12/21 17:35	04/16/21 12:00	10
Chromium	<0.0050		0.0050		mg/L		04/12/21 17:35	04/13/21 20:46	1
<b>Cobalt</b>	<b>0.0015</b>		0.0010		mg/L		04/12/21 17:35	04/13/21 20:46	1
Lead	<0.00050		0.00050		mg/L		04/12/21 17:35	04/13/21 20:46	1
Molybdenum	<0.0050		0.0050		mg/L		04/12/21 17:35	04/13/21 20:46	1
Selenium	<0.0025		0.0025		mg/L		04/12/21 17:35	04/13/21 20:46	1
Thallium	<0.0020		0.0020		mg/L		04/12/21 17:35	04/13/21 20:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/14/21 09:55	04/15/21 10:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>2200</b>		10		mg/L			04/15/21 05:00	1
<b>Chloride</b>	<b>150</b>		10		mg/L			04/14/21 13:44	5
<b>Fluoride</b>	<b>0.20</b>		0.10		mg/L			05/03/21 12:42	1
<b>pH</b>	<b>6.8</b>	HF	0.2		SU			04/21/21 15:40	1
<b>Sulfate</b>	<b>850</b>		100		mg/L			04/20/21 15:43	20

**Client Sample ID: MW-21**

**Lab Sample ID: 500-197405-5**

Date Collected: 04/08/21 12:47

Matrix: Water

Date Received: 04/09/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/12/21 17:35	04/13/21 19:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		04/12/21 17:35	04/13/21 20:50	1
<b>Arsenic</b>	<b>0.025</b>		0.0010		mg/L		04/12/21 17:35	04/13/21 20:50	1
<b>Barium</b>	<b>0.34</b>		0.0025		mg/L		04/12/21 17:35	04/13/21 20:50	1
Beryllium	<0.0010		0.0010		mg/L		04/12/21 17:35	04/13/21 20:50	1
<b>Boron</b>	<b>0.48</b>		0.10		mg/L		04/12/21 17:35	04/16/21 12:04	2
Cadmium	<0.00050		0.00050		mg/L		04/12/21 17:35	04/13/21 20:50	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		04/12/21 17:35	04/13/21 20:50	1
Chromium	<0.0050		0.0050		mg/L		04/12/21 17:35	04/13/21 20:50	1
<b>Cobalt</b>	<b>0.0042</b>		0.0010		mg/L		04/12/21 17:35	04/13/21 20:50	1
Lead	<0.00050		0.00050		mg/L		04/12/21 17:35	04/13/21 20:50	1
Molybdenum	<0.0050		0.0050		mg/L		04/12/21 17:35	04/13/21 20:50	1

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# Client Sample Results

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

Job ID: 500-197405-1

**Client Sample ID: MW-21**

Date Collected: 04/08/21 12:47

Date Received: 04/09/21 09:30

**Lab Sample ID: 500-197405-5**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0025		0.0025		mg/L		04/12/21 17:35	04/13/21 20:50	1
Thallium	<0.0020		0.0020		mg/L		04/12/21 17:35	04/13/21 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/14/21 09:55	04/15/21 10:09	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>770</b>		10		mg/L			04/15/21 05:02	1
<b>Chloride</b>	<b>34</b>		2.0		mg/L			04/14/21 14:15	1
<b>Fluoride</b>	<b>0.25</b>		0.10		mg/L			05/03/21 12:49	1
<b>pH</b>	<b>6.7</b>	HF	0.2		SU			04/21/21 15:40	1
<b>Sulfate</b>	<b>26</b>		5.0		mg/L			04/20/21 15:30	1

**Client Sample ID: MCB DUPLICATE**

Date Collected: 04/08/21 00:00

Date Received: 04/14/21 09:25

**Lab Sample ID: 500-197405-6**

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/18/21 18:38	04/19/21 16:47	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		04/18/21 18:38	04/20/21 20:06	1
<b>Arsenic</b>	<b>0.020</b>		0.0010		mg/L		04/18/21 18:38	04/20/21 20:06	1
<b>Barium</b>	<b>0.18</b>		0.0025		mg/L		04/18/21 18:38	04/20/21 20:06	1
Beryllium	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 20:06	1
<b>Boron</b>	<b>2.7</b>		0.050		mg/L		04/18/21 18:38	04/20/21 20:06	1
Cadmium	<0.00050		0.00050		mg/L		04/18/21 18:38	04/20/21 20:06	1
<b>Calcium</b>	<b>360</b>		2.0		mg/L		04/18/21 18:38	04/21/21 13:31	10
Chromium	<0.0050		0.0050		mg/L		04/18/21 18:38	04/20/21 20:06	1
Cobalt	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 20:06	1
Lead	<0.00050		0.00050		mg/L		04/18/21 18:38	04/20/21 20:06	1
<b>Molybdenum</b>	<b>0.024</b>		0.0050		mg/L		04/18/21 18:38	04/20/21 20:06	1
Selenium	<0.0025		0.0025		mg/L		04/18/21 18:38	04/20/21 20:06	1
Thallium	<0.0020		0.0020		mg/L		04/18/21 18:38	04/20/21 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/15/21 10:35	04/16/21 10:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>2400</b>		10		mg/L			04/15/21 05:05	1
<b>Chloride</b>	<b>120</b>		10		mg/L			04/20/21 15:43	5
<b>Fluoride</b>	<b>0.39</b>		0.10		mg/L			05/03/21 12:53	1
<b>pH</b>	<b>7.5</b>	HF	0.2		SU			04/21/21 15:40	1
<b>Sulfate</b>	<b>1400</b>		250		mg/L			04/20/21 15:55	50

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# Definitions/Glossary

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

Job ID: 500-197405-1

## Qualifiers

### Metals

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

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

## 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: Powerton CCR MCB

Job ID: 500-197405-1

## Metals

### Prep Batch: 592857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-2	MW-14	Total Recoverable	Water	3005A	
500-197405-4	MW-20	Total Recoverable	Water	3005A	
500-197405-5	MW-21	Total Recoverable	Water	3005A	
MB 500-592857/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-592857/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 593146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-2	MW-14	Total Recoverable	Water	6010C	592857
500-197405-4	MW-20	Total Recoverable	Water	6010C	592857
500-197405-5	MW-21	Total Recoverable	Water	6010C	592857
MB 500-592857/1-A	Method Blank	Total Recoverable	Water	6010C	592857
LCS 500-592857/2-A	Lab Control Sample	Total Recoverable	Water	6010C	592857

### Analysis Batch: 593225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-2	MW-14	Total Recoverable	Water	6020A	592857
500-197405-4	MW-20	Total Recoverable	Water	6020A	592857
500-197405-5	MW-21	Total Recoverable	Water	6020A	592857
MB 500-592857/1-A	Method Blank	Total Recoverable	Water	6020A	592857
LCS 500-592857/2-A	Lab Control Sample	Total Recoverable	Water	6020A	592857

### Prep Batch: 593228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-2	MW-14	Total/NA	Water	7470A	
500-197405-4	MW-20	Total/NA	Water	7470A	
500-197405-5	MW-21	Total/NA	Water	7470A	
MB 500-593228/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-593228/21-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 593462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	7470A	
500-197405-3	MW-17	Total/NA	Water	7470A	
500-197405-6	MCB DUPLICATE	Total/NA	Water	7470A	
MB 500-593462/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-593462/15-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 593475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-2	MW-14	Total/NA	Water	7470A	593228
500-197405-4	MW-20	Total/NA	Water	7470A	593228
500-197405-5	MW-21	Total/NA	Water	7470A	593228
MB 500-593228/12-A	Method Blank	Total/NA	Water	7470A	593228
LCS 500-593228/21-A	Lab Control Sample	Total/NA	Water	7470A	593228

### Analysis Batch: 593675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	7470A	593462
500-197405-3	MW-17	Total/NA	Water	7470A	593462
500-197405-6	MCB DUPLICATE	Total/NA	Water	7470A	593462

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# QC Association Summary

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

Job ID: 500-197405-1

## Metals (Continued)

### Analysis Batch: 593675 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-593462/12-A	Method Blank	Total/NA	Water	7470A	593462
LCS 500-593462/15-A	Lab Control Sample	Total/NA	Water	7470A	593462

### Analysis Batch: 593722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-2	MW-14	Total Recoverable	Water	6020A	592857
500-197405-4	MW-20	Total Recoverable	Water	6020A	592857
500-197405-5	MW-21	Total Recoverable	Water	6020A	592857
MB 500-592857/1-A	Method Blank	Total Recoverable	Water	6020A	592857
LCS 500-592857/2-A	Lab Control Sample	Total Recoverable	Water	6020A	592857

### Prep Batch: 593794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total Recoverable	Water	3005A	
500-197405-3	MW-17	Total Recoverable	Water	3005A	
500-197405-6	MCB DUPLICATE	Total Recoverable	Water	3005A	
MB 500-593794/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-593794/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-197405-1 MS	MW-13	Total Recoverable	Water	3005A	
500-197405-1 MSD	MW-13	Total Recoverable	Water	3005A	
500-197405-1 DU	MW-13	Total Recoverable	Water	3005A	

### Analysis Batch: 594052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total Recoverable	Water	6010C	593794
500-197405-3	MW-17	Total Recoverable	Water	6010C	593794
500-197405-6	MCB DUPLICATE	Total Recoverable	Water	6010C	593794
MB 500-593794/1-A	Method Blank	Total Recoverable	Water	6010C	593794
LCS 500-593794/2-A	Lab Control Sample	Total Recoverable	Water	6010C	593794
500-197405-1 MS	MW-13	Total Recoverable	Water	6010C	593794
500-197405-1 MSD	MW-13	Total Recoverable	Water	6010C	593794
500-197405-1 DU	MW-13	Total Recoverable	Water	6010C	593794

### Analysis Batch: 594355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total Recoverable	Water	6020A	593794
500-197405-3	MW-17	Total Recoverable	Water	6020A	593794
500-197405-6	MCB DUPLICATE	Total Recoverable	Water	6020A	593794
MB 500-593794/1-A	Method Blank	Total Recoverable	Water	6020A	593794
LCS 500-593794/2-A	Lab Control Sample	Total Recoverable	Water	6020A	593794
500-197405-1 MS	MW-13	Total Recoverable	Water	6020A	593794
500-197405-1 MSD	MW-13	Total Recoverable	Water	6020A	593794
500-197405-1 DU	MW-13	Total Recoverable	Water	6020A	593794

### Analysis Batch: 594574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total Recoverable	Water	6020A	593794
500-197405-6	MCB DUPLICATE	Total Recoverable	Water	6020A	593794
500-197405-1 MS	MW-13	Total Recoverable	Water	6020A	593794
500-197405-1 MSD	MW-13	Total Recoverable	Water	6020A	593794
500-197405-1 DU	MW-13	Total Recoverable	Water	6020A	593794

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# QC Association Summary

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

Job ID: 500-197405-1

## General Chemistry

### Analysis Batch: 593305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-2	MW-14	Total/NA	Water	SM 4500 CI- E	
500-197405-4	MW-20	Total/NA	Water	SM 4500 CI- E	
500-197405-5	MW-21	Total/NA	Water	SM 4500 CI- E	
MB 500-593305/52	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-593305/53	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 593354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	SM 2540C	
500-197405-2	MW-14	Total/NA	Water	SM 2540C	
500-197405-3	MW-17	Total/NA	Water	SM 2540C	
500-197405-4	MW-20	Total/NA	Water	SM 2540C	
500-197405-5	MW-21	Total/NA	Water	SM 2540C	
500-197405-6	MCB DUPLICATE	Total/NA	Water	SM 2540C	
MB 500-593354/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-593354/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 594192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-197405-2	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-197405-3	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-197405-4	MW-20	Total/NA	Water	SM 4500 SO4 E	
500-197405-5	MW-21	Total/NA	Water	SM 4500 SO4 E	
500-197405-6	MCB DUPLICATE	Total/NA	Water	SM 4500 SO4 E	
MB 500-594192/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-594192/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-197405-1 MS	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-197405-1 MSD	MW-13	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 594193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	SM 4500 CI- E	
500-197405-3	MW-17	Total/NA	Water	SM 4500 CI- E	
500-197405-6	MCB DUPLICATE	Total/NA	Water	SM 4500 CI- E	
MB 500-594193/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-594193/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-197405-1 MS	MW-13	Total/NA	Water	SM 4500 CI- E	
500-197405-1 MSD	MW-13	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 594393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	SM 4500 H+ B	
500-197405-2	MW-14	Total/NA	Water	SM 4500 H+ B	
500-197405-3	MW-17	Total/NA	Water	SM 4500 H+ B	
500-197405-4	MW-20	Total/NA	Water	SM 4500 H+ B	
500-197405-5	MW-21	Total/NA	Water	SM 4500 H+ B	
500-197405-6	MCB DUPLICATE	Total/NA	Water	SM 4500 H+ B	
LCS 500-594393/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSD 500-594393/6	Lab Control Sample Dup	Total/NA	Water	SM 4500 H+ B	
500-197405-1 DU	MW-13	Total/NA	Water	SM 4500 H+ B	

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# QC Association Summary

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

Job ID: 500-197405-1

## General Chemistry (Continued)

### Analysis Batch: 594393 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-2 DU	MW-14	Total/NA	Water	SM 4500 H+ B	
500-197405-3 DU	MW-17	Total/NA	Water	SM 4500 H+ B	
500-197405-4 DU	MW-20	Total/NA	Water	SM 4500 H+ B	
500-197405-5 DU	MW-21	Total/NA	Water	SM 4500 H+ B	
500-197405-6 DU	MCB DUPLICATE	Total/NA	Water	SM 4500 H+ B	

### Analysis Batch: 596495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	SM 4500 F C	
500-197405-2	MW-14	Total/NA	Water	SM 4500 F C	
500-197405-3	MW-17	Total/NA	Water	SM 4500 F C	
500-197405-4	MW-20	Total/NA	Water	SM 4500 F C	
500-197405-5	MW-21	Total/NA	Water	SM 4500 F C	
500-197405-6	MCB DUPLICATE	Total/NA	Water	SM 4500 F C	
MB 500-596495/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-596495/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-197405-1 MS	MW-13	Total/NA	Water	SM 4500 F C	
500-197405-1 MSD	MW-13	Total/NA	Water	SM 4500 F C	



# QC Sample Results

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

Job ID: 500-197405-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-592857/1-A**  
**Matrix: Water**  
**Analysis Batch: 593146**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 592857**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/12/21 17:35	04/13/21 19:05	1

**Lab Sample ID: LCS 500-592857/2-A**  
**Matrix: Water**  
**Analysis Batch: 593146**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 592857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.501		mg/L		100	80 - 120

**Lab Sample ID: MB 500-593794/1-A**  
**Matrix: Water**  
**Analysis Batch: 594052**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		04/18/21 18:38	04/19/21 15:45	1

**Lab Sample ID: LCS 500-593794/2-A**  
**Matrix: Water**  
**Analysis Batch: 594052**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.522		mg/L		104	80 - 120

**Lab Sample ID: 500-197405-1 MS**  
**Matrix: Water**  
**Analysis Batch: 594052**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	<0.010		0.500	0.551		mg/L		109	75 - 125

**Lab Sample ID: 500-197405-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 594052**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	<0.010		0.500	0.550		mg/L		109	75 - 125	0	20

**Lab Sample ID: 500-197405-1 DU**  
**Matrix: Water**  
**Analysis Batch: 594052**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.010		<0.010		mg/L		NC	20

# QC Sample Results

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

Job ID: 500-197405-1

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

**Lab Sample ID: MB 500-592857/1-A**  
**Matrix: Water**  
**Analysis Batch: 593225**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 592857**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		04/12/21 17:35	04/13/21 20:36	1
Arsenic	<0.0010		0.0010		mg/L		04/12/21 17:35	04/13/21 20:36	1
Barium	<0.0025		0.0025		mg/L		04/12/21 17:35	04/13/21 20:36	1
Beryllium	<0.0010		0.0010		mg/L		04/12/21 17:35	04/13/21 20:36	1
Cadmium	<0.00050		0.00050		mg/L		04/12/21 17:35	04/13/21 20:36	1
Calcium	<0.20		0.20		mg/L		04/12/21 17:35	04/13/21 20:36	1
Chromium	<0.0050		0.0050		mg/L		04/12/21 17:35	04/13/21 20:36	1
Cobalt	<0.0010		0.0010		mg/L		04/12/21 17:35	04/13/21 20:36	1
Lead	<0.00050		0.00050		mg/L		04/12/21 17:35	04/13/21 20:36	1
Molybdenum	<0.0050		0.0050		mg/L		04/12/21 17:35	04/13/21 20:36	1
Selenium	<0.0025		0.0025		mg/L		04/12/21 17:35	04/13/21 20:36	1
Thallium	<0.0020		0.0020		mg/L		04/12/21 17:35	04/13/21 20:36	1

**Lab Sample ID: MB 500-592857/1-A**  
**Matrix: Water**  
**Analysis Batch: 593722**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 592857**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		04/12/21 17:35	04/16/21 11:50	1

**Lab Sample ID: LCS 500-592857/2-A**  
**Matrix: Water**  
**Analysis Batch: 593225**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 592857**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.105		mg/L		105	80 - 120
Barium	2.00	2.14		mg/L		107	80 - 120
Beryllium	0.0500	0.0533		mg/L		107	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.508		mg/L		102	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	1.03		mg/L		103	80 - 120
Selenium	0.100	0.109		mg/L		109	80 - 120
Thallium	0.100	0.109		mg/L		109	80 - 120

**Lab Sample ID: LCS 500-592857/2-A**  
**Matrix: Water**  
**Analysis Batch: 593722**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 592857**

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

# QC Sample Results

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

Job ID: 500-197405-1

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

**Lab Sample ID: MB 500-593794/1-A**  
**Matrix: Water**  
**Analysis Batch: 594355**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		04/18/21 18:38	04/20/21 19:39	1
Arsenic	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 19:39	1
Barium	<0.0025		0.0025		mg/L		04/18/21 18:38	04/20/21 19:39	1
Beryllium	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 19:39	1
Boron	<0.050		0.050		mg/L		04/18/21 18:38	04/20/21 19:39	1
Cadmium	<0.00050		0.00050		mg/L		04/18/21 18:38	04/20/21 19:39	1
Calcium	<0.20		0.20		mg/L		04/18/21 18:38	04/20/21 19:39	1
Chromium	<0.0050		0.0050		mg/L		04/18/21 18:38	04/20/21 19:39	1
Cobalt	<0.0010		0.0010		mg/L		04/18/21 18:38	04/20/21 19:39	1
Lead	<0.00050		0.00050		mg/L		04/18/21 18:38	04/20/21 19:39	1
Molybdenum	<0.0050		0.0050		mg/L		04/18/21 18:38	04/20/21 19:39	1
Selenium	<0.0025		0.0025		mg/L		04/18/21 18:38	04/20/21 19:39	1
Thallium	<0.0020		0.0020		mg/L		04/18/21 18:38	04/20/21 19:39	1

**Lab Sample ID: LCS 500-593794/2-A**  
**Matrix: Water**  
**Analysis Batch: 594355**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.525		mg/L		105	80 - 120
Arsenic	0.100	0.0993		mg/L		99	80 - 120
Barium	2.00	2.01		mg/L		101	80 - 120
Beryllium	0.0500	0.0493		mg/L		99	80 - 120
Boron	1.00	1.07		mg/L		107	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Molybdenum	1.00	1.02		mg/L		102	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

**Lab Sample ID: 500-197405-1 MS**  
**Matrix: Water**  
**Analysis Batch: 594355**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.523		mg/L		105	75 - 125
Arsenic	0.021		0.100	0.114		mg/L		93	75 - 125
Barium	0.21		2.00	2.18		mg/L		99	75 - 125
Beryllium	<0.0010		0.0500	0.0460		mg/L		92	75 - 125
Boron	2.6		1.00	3.56		mg/L		92	75 - 125
Cadmium	<0.00050		0.0500	0.0480		mg/L		96	75 - 125
Chromium	<0.0050		0.200	0.194		mg/L		97	75 - 125
Cobalt	<0.0010		0.500	0.482		mg/L		96	75 - 125
Lead	<0.00050		0.100	0.109		mg/L		109	75 - 125
Molybdenum	0.025		1.00	1.07		mg/L		105	75 - 125
Selenium	<0.0025		0.100	0.102		mg/L		102	75 - 125

Eurofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-197405-1

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

**Lab Sample ID: 500-197405-1 MS**  
**Matrix: Water**  
**Analysis Batch: 594355**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125

**Lab Sample ID: 500-197405-1 MS**  
**Matrix: Water**  
**Analysis Batch: 594574**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	380		10.0	390	4	mg/L		108	75 - 125

**Lab Sample ID: 500-197405-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 594355**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.519		mg/L		104	75 - 125	1	20
Arsenic	0.021		0.100	0.113		mg/L		92	75 - 125	1	20
Barium	0.21		2.00	2.15		mg/L		97	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0440		mg/L		88	75 - 125	5	20
Boron	2.6		1.00	3.50		mg/L		86	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0474		mg/L		95	75 - 125	1	20
Chromium	<0.0050		0.200	0.193		mg/L		96	75 - 125	0	20
Cobalt	<0.0010		0.500	0.480		mg/L		96	75 - 125	1	20
Lead	<0.00050		0.100	0.108		mg/L		108	75 - 125	1	20
Molybdenum	0.025		1.00	1.07		mg/L		104	75 - 125	1	20
Selenium	<0.0025		0.100	0.0999		mg/L		100	75 - 125	2	20
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125	0	20

**Lab Sample ID: 500-197405-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 594574**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	380		10.0	384	4	mg/L		40	75 - 125	2	20

**Lab Sample ID: 500-197405-1 DU**  
**Matrix: Water**  
**Analysis Batch: 594355**

**Client Sample ID: MW-13**  
**Prep Type: Total Recoverable**  
**Prep Batch: 593794**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.021		0.0207		mg/L		2	20
Barium	0.21		0.208		mg/L		0	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	2.6		2.61		mg/L		1	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.025		0.0245		mg/L		0.9	20
Selenium	<0.0025		<0.0025		mg/L		NC	20

Eurofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-197405-1

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

Lab Sample ID: 500-197405-1 DU  
Matrix: Water  
Analysis Batch: 594355

Client Sample ID: MW-13  
Prep Type: Total Recoverable  
Prep Batch: 593794

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-197405-1 DU  
Matrix: Water  
Analysis Batch: 594574

Client Sample ID: MW-13  
Prep Type: Total Recoverable  
Prep Batch: 593794

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Calcium	380		381		mg/L		0.4	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-593228/12-A  
Matrix: Water  
Analysis Batch: 593475

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 593228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/14/21 09:55	04/15/21 08:57	1

Lab Sample ID: LCS 500-593228/21-A  
Matrix: Water  
Analysis Batch: 593475

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 593228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00187		mg/L		93	80 - 120

Lab Sample ID: MB 500-593462/12-A  
Matrix: Water  
Analysis Batch: 593675

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 593462

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		04/15/21 10:35	04/16/21 09:48	1

Lab Sample ID: LCS 500-593462/15-A  
Matrix: Water  
Analysis Batch: 593675

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 593462

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00189		mg/L		94	80 - 120

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

Lab Sample ID: MB 500-593354/1  
Matrix: Water  
Analysis Batch: 593354

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			04/15/21 04:29	1

# QC Sample Results

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

Job ID: 500-197405-1

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

Lab Sample ID: LCS 500-593354/2  
Matrix: Water  
Analysis Batch: 593354

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	230		mg/L		92	80 - 120

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

Lab Sample ID: MB 500-593305/52  
Matrix: Water  
Analysis Batch: 593305

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			04/14/21 13:40	1

Lab Sample ID: LCS 500-593305/53  
Matrix: Water  
Analysis Batch: 593305

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	20.7		mg/L		104	85 - 115

Lab Sample ID: MB 500-594193/16  
Matrix: Water  
Analysis Batch: 594193

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			04/20/21 15:31	1

Lab Sample ID: LCS 500-594193/17  
Matrix: Water  
Analysis Batch: 594193

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	21.0		mg/L		105	85 - 115

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-596495/3  
Matrix: Water  
Analysis Batch: 596495

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/03/21 11:54	1

Lab Sample ID: LCS 500-596495/4  
Matrix: Water  
Analysis Batch: 596495

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.8		mg/L		108	80 - 120

# QC Sample Results

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

Job ID: 500-197405-1

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

**Lab Sample ID: 500-197405-1 MS**  
**Matrix: Water**  
**Analysis Batch: 596495**

**Client Sample ID: MW-13**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.40		5.00	5.79		mg/L		108	75 - 125

**Lab Sample ID: 500-197405-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 596495**

**Client Sample ID: MW-13**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.40		5.00	5.74		mg/L		107	75 - 125	1	20

## Method: SM 4500 H+ B - pH

**Lab Sample ID: 500-197405-1 DU**  
**Matrix: Water**  
**Analysis Batch: 594393**

**Client Sample ID: MW-13**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.5	HF	7.5		SU		0.1	

**Lab Sample ID: 500-197405-2 DU**  
**Matrix: Water**  
**Analysis Batch: 594393**

**Client Sample ID: MW-14**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.0	HF	7.0		SU		0	

**Lab Sample ID: 500-197405-3 DU**  
**Matrix: Water**  
**Analysis Batch: 594393**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0.3	

**Lab Sample ID: 500-197405-4 DU**  
**Matrix: Water**  
**Analysis Batch: 594393**

**Client Sample ID: MW-20**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.8	HF	6.8		SU		0.3	

**Lab Sample ID: 500-197405-5 DU**  
**Matrix: Water**  
**Analysis Batch: 594393**

**Client Sample ID: MW-21**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.7	HF	6.7		SU		0.2	

# QC Sample Results

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

Job ID: 500-197405-1

## Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 500-197405-6 DU  
Matrix: Water  
Analysis Batch: 594393

Client Sample ID: MCB DUPLICATE  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.5	HF	7.5		SU		0.1	

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

Lab Sample ID: MB 500-594192/15  
Matrix: Water  
Analysis Batch: 594192

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			04/20/21 15:29	1

Lab Sample ID: LCS 500-594192/16  
Matrix: Water  
Analysis Batch: 594192

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	22.0		mg/L		110	80 - 120



# Lab Chronicle

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

Job ID: 500-197405-1

**Client Sample ID: MW-13**  
**Date Collected: 04/08/21 09:25**  
**Date Received: 04/14/21 09:25**

**Lab Sample ID: 500-197405-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			593794	04/18/21 18:38	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	594052	04/19/21 16:17	EEN	TAL CHI
Total Recoverable	Prep	3005A			593794	04/18/21 18:38	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	594355	04/20/21 19:45	FXG	TAL CHI
Total Recoverable	Prep	3005A			593794	04/18/21 18:38	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	594574	04/21/21 13:04	FXG	TAL CHI
Total/NA	Prep	7470A			593462	04/15/21 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	593675	04/16/21 10:55	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	593354	04/15/21 04:52	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	594193	04/20/21 15:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	596495	05/03/21 12:08	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	594393	(Start) 04/21/21 15:40 (End) 04/21/21 14:20	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	594192	04/20/21 15:50	MS	TAL CHI

**Client Sample ID: MW-14**  
**Date Collected: 04/08/21 11:00**  
**Date Received: 04/09/21 09:30**

**Lab Sample ID: 500-197405-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	593146	04/13/21 19:12	JJB	TAL CHI
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	593225	04/13/21 20:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	593722	04/16/21 11:57	FXG	TAL CHI
Total/NA	Prep	7470A			593228	04/14/21 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	593475	04/15/21 10:00	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	593354	04/15/21 04:54	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	593305	04/14/21 13:44	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	596495	05/03/21 12:29	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	594393	(Start) 04/21/21 15:40 (End) 04/21/21 14:20	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	594192	04/20/21 15:47	MS	TAL CHI

**Client Sample ID: MW-17**  
**Date Collected: 04/08/21 10:19**  
**Date Received: 04/14/21 09:25**

**Lab Sample ID: 500-197405-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			593794	04/18/21 18:38	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	594052	04/19/21 16:34	EEN	TAL CHI

# Lab Chronicle

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

Job ID: 500-197405-1

**Client Sample ID: MW-17**  
**Date Collected: 04/08/21 10:19**  
**Date Received: 04/14/21 09:25**

**Lab Sample ID: 500-197405-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			593794	04/18/21 18:38	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	594355	04/20/21 20:03	FXG	TAL CHI
Total/NA	Prep	7470A			593462	04/15/21 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	593675	04/16/21 10:57	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	593354	04/15/21 04:57	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	594193	04/20/21 15:43	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	596495	05/03/21 12:35	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	594393	(Start) 04/21/21 15:40 (End) 04/21/21 14:20	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	594192	04/20/21 15:49	MS	TAL CHI

**Client Sample ID: MW-20**  
**Date Collected: 04/08/21 11:44**  
**Date Received: 04/09/21 09:30**

**Lab Sample ID: 500-197405-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	593146	04/13/21 19:15	JJB	TAL CHI
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	593225	04/13/21 20:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	593722	04/16/21 12:00	FXG	TAL CHI
Total/NA	Prep	7470A			593228	04/14/21 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	593475	04/15/21 10:02	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	593354	04/15/21 05:00	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	593305	04/14/21 13:44	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	596495	05/03/21 12:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	594393	(Start) 04/21/21 15:40 (End) 04/21/21 14:20	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	594192	04/20/21 15:43	MS	TAL CHI

**Client Sample ID: MW-21**  
**Date Collected: 04/08/21 12:47**  
**Date Received: 04/09/21 09:30**

**Lab Sample ID: 500-197405-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	593146	04/13/21 19:18	JJB	TAL CHI
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	593225	04/13/21 20:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			592857	04/12/21 17:35	LMN	TAL CHI
Total Recoverable	Analysis	6020A		2	593722	04/16/21 12:04	FXG	TAL CHI

# Lab Chronicle

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

Job ID: 500-197405-1

**Client Sample ID: MW-21**  
**Date Collected: 04/08/21 12:47**  
**Date Received: 04/09/21 09:30**

**Lab Sample ID: 500-197405-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			593228	04/14/21 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	593475	04/15/21 10:09	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	593354	04/15/21 05:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	593305	04/14/21 14:15	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	596495	05/03/21 12:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	594393		SMO	TAL CHI
					(Start)	04/21/21 15:40		
					(End)	04/21/21 14:20		
Total/NA	Analysis	SM 4500 SO4 E		1	594192	04/20/21 15:30	MS	TAL CHI

**Client Sample ID: MCB DUPLICATE**  
**Date Collected: 04/08/21 00:00**  
**Date Received: 04/14/21 09:25**

**Lab Sample ID: 500-197405-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			593794	04/18/21 18:38	LMN	TAL CHI
Total Recoverable	Analysis	6010C		1	594052	04/19/21 16:47	EEN	TAL CHI
Total Recoverable	Prep	3005A			593794	04/18/21 18:38	LMN	TAL CHI
Total Recoverable	Analysis	6020A		1	594355	04/20/21 20:06	FXG	TAL CHI
Total Recoverable	Prep	3005A			593794	04/18/21 18:38	LMN	TAL CHI
Total Recoverable	Analysis	6020A		10	594574	04/21/21 13:31	FXG	TAL CHI
Total/NA	Prep	7470A			593462	04/15/21 10:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	593675	04/16/21 10:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	593354	04/15/21 05:05	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	594193	04/20/21 15:43	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	596495	05/03/21 12:53	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	594393		SMO	TAL CHI
					(Start)	04/21/21 15:40		
					(End)	04/21/21 14:20		
Total/NA	Analysis	SM 4500 SO4 E		50	594192	04/20/21 15:55	MS	TAL CHI

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-197405-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-21 *

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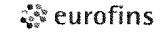
\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**



Environment Testing  
 America

<b>Client Information</b>		Sampler: <i>Mitchel Dolan</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No: 500-90414-40416 1																																							
Client Contact: Mitchel Dolan		Phone: <i>262-622-1143</i>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin: <i>IL</i>		Page: Page 1 of 1																																							
Company: KPRG and Associates Inc		PWSID		<b>Analysis Requested</b>						Job #: <i>500-197405</i>																																					
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>2540C, 4500 F, C, SM4500 Cl_E, SM4500_H+, SM4500_SO4_E</td> <td>903.0 - Radium 226</td> <td>904.0 - Radium 228</td> <td>Ra226Ra228 - GFPC - Combined</td> <td>6010C, 6020A, 7470A</td> <td rowspan="5">Total Number of containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500 F, C, SM4500 Cl_E, SM4500_H+, SM4500_SO4_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228 - GFPC - Combined	6010C, 6020A, 7470A	Total Number of containers																													Preservation Codes	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500 F, C, SM4500 Cl_E, SM4500_H+, SM4500_SO4_E	903.0 - Radium 226							904.0 - Radium 228	Ra226Ra228 - GFPC - Combined	6010C, 6020A, 7470A	Total Number of containers																																		
City: Brookfield		TAT Requested (days)		A HCL		M Hexane		B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)																																							
State Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Other																																											
Phone: 262-781-0475(Tel)		PO #		Special Instructions/Note																																											
Email: mitcheld@kprginc.com		WO #																																													
Project Name: Powerton CCR MCB		Project #																																													
Site		SSOW#																																													
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT-Tissue A=Air)																																							
								Preservation Code:																																							
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<i>1</i> MW-13		<i>4/8/21</i>		<i>0925</i>		<i>G</i>		Water																																							
<i>2</i> MW 14		<i>4/8/21</i>		<i>1100</i>		<i>G</i>		Water																																							
<i>3</i> MW-17		<i>4/8/21</i>		<i>1019</i>		<i>G</i>		Water																																							
<i>4</i> MW 20		<i>4/8/21</i>		<i>1144</i>		<i>G</i>		Water																																							
<i>5</i> MW-21		<i>4/8/21</i>		<i>1247</i>		<i>G</i>		Water																																							
<i>6</i> MCB DUPLICATE		<i>4/8/21</i>		<i>-</i>		<i>G</i>		Water																																							
<del>MW-13</del>								Water																																							
<del>MW-14</del>								Water																																							
<del>MW-17</del>								Water																																							
<del>MW-20</del>								Water																																							
<del>MW-21</del>								Water																																							
<b>Possible Hazard Identification</b>					<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>																																										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																										
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements																																										
Empty Kit Relinquished by		Date		Time		Method of Shipment:																																									
Relinquished by: <i>[Signature]</i>		Date/Time: <i>4/8/2021 / 1630</i>		Company: <i>KPRG</i>		Received by: <i>FED EX</i>		Date/Time: <i>4/8/2021 / 1630</i>																																							
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i>		Date/Time: <i>4/9/21 0930</i>																																							
Relinquished by:		Date/Time:		Company:		Received by: <i>[Signature]</i>		Date/Time: <i>4/14/21 0925</i>																																							
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>1.3/18.1</i>																																											



ORIGIN ID:PIAA (2 ST 19  
MITCHEL DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

10:30 A

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Part # 150297-4334236/27195 07/21

WESTMONT, IL 60559  
UNITED STATES US

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST



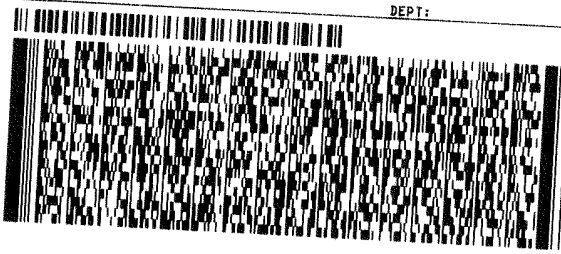
UNIVERSITY PARK IL 60484

500-197405 Wayb

(708) 634-6200  
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DEPT:



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ORIGIN ID:PIAA (262) 622-1143  
MITCHEL DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 08APR21  
ACTWGT: 24.10 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST



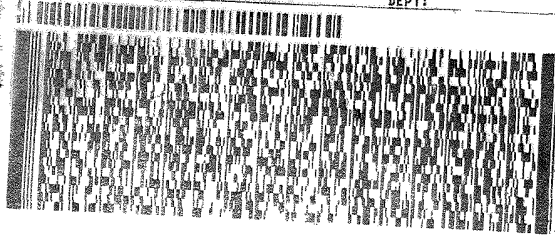
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500-197405 Wayb

(709) 634-5200

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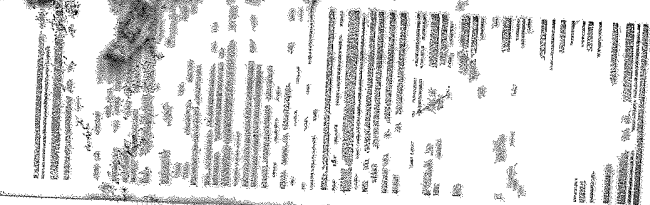
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Part #:156297-4N34FH38/2199-07/21

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# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-197405-1

**Login Number: 197405**

**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.	False	
Cooler Temperature is recorded.	True	1.3,18.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



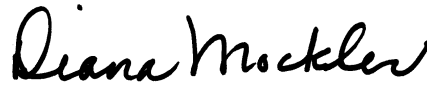
## ANALYTICAL REPORT

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

Laboratory Job ID: 500-197405-2  
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:  
5/13/2021 1:52:35 PM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*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: Powerton CCR MCB

Job ID: 500-197405-2

## Job ID: 500-197405-2

### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

#### Job Narrative 500-197405-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/9/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 18.1° C.

#### Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-13 (500-197405-1), MW-17 (500-197405-3) and MCB DUPLICATE (500-197405-6). The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

#### RAD

Method 903.0: Radium 226 prep batch 160-506293

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-20 (500-197405-4), MW-21 (500-197405-5), MCB DUPLICATE (500-197405-6), (LCS 160-506293/1-A), (MB 160-506293/23-A) and (500-197405-F-5-A DU)

Methods 903.0, 9315: Radium 226 prep batch 160-506127

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-13 (500-197405-1), MW-14 (500-197405-2), MW-17 (500-197405-3), (LCS 160-506127/1-A), (MB 160-506127/25-A), (500-197359-C-2-A), (500-197359-C-2-B MS), (500-197359-C-2-C MSD) and (500-197405-E-3-B DU)

Methods 904.0, 9320: Radium-228 prep batch 160-506128:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-13 (500-197405-1), MW-14 (500-197405-2), MW-17 (500-197405-3), (LCS 160-506128/1-A), (MB 160-506128/25-A), (500-197359-C-2-D), (500-197359-C-2-E MS), (500-197359-C-2-F MSD) and (500-197405-E-3-C DU)

Method 904.0: Radium-228 prep batch 160-506298:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-20 (500-197405-4), MW-21 (500-197405-5), MCB DUPLICATE (500-197405-6), (LCS 160-506298/1-A), (MB 160-506298/23-A) and (500-197405-F-5-B DU)

Method PrecSep\_0: Radium 228 Prep Batch 160-506128:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-13 (500-197405-1). This is an indicator of matrix interference.

Method PrecSep-21: Radium 226 Prep Batch 160-506127:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-13 (500-197405-1).

# Case Narrative

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

Job ID: 500-197405-2

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## Job ID: 500-197405-2 (Continued)

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

This is an indicator of matrix interference.

Method PrecSep-21: Radium 226 Prep Batch 160-506293:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-20 (500-197405-4) and MCB DUPLICATE (500-197405-6). This is an indicator of matrix interference.

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: Powerton CCR MCB

Job ID: 500-197405-2

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: Powerton CCR MCB

Job ID: 500-197405-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-197405-1	MW-13	Water	04/08/21 09:25	04/14/21 09:25	
500-197405-2	MW-14	Water	04/08/21 11:00	04/09/21 09:30	
500-197405-3	MW-17	Water	04/08/21 10:19	04/14/21 09:25	
500-197405-4	MW-20	Water	04/08/21 11:44	04/09/21 09:30	
500-197405-5	MW-21	Water	04/08/21 12:47	04/09/21 09:30	
500-197405-6	MCB DUPLICATE	Water	04/08/21 00:00	04/14/21 09:25	

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# Client Sample Results

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

Job ID: 500-197405-2

**Client Sample ID: MW-13**

**Lab Sample ID: 500-197405-1**

Date Collected: 04/08/21 09:25

Matrix: Water

Date Received: 04/14/21 09:25

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.222		0.113	0.114	1.00	0.137	pCi/L	04/19/21 13:32	05/11/21 10:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		40 - 110					04/19/21 13:32	05/11/21 10:38	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	0.548		0.269	0.274	1.00	0.385	pCi/L	04/19/21 14:01	05/05/21 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		40 - 110					04/19/21 14:01	05/05/21 12:28	1
Y Carrier	88.2		40 - 110					04/19/21 14:01	05/05/21 12:28	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	0.770		0.292	0.297	5.00	0.385	pCi/L		05/13/21 11:32	1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-197405-2**

Date Collected: 04/08/21 11:00

Matrix: Water

Date Received: 04/09/21 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.260		0.132	0.134	1.00	0.152	pCi/L	04/19/21 13:32	05/11/21 10:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.4		40 - 110					04/19/21 13:32	05/11/21 10:38	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	<0.605	U	0.367	0.369	1.00	0.605	pCi/L	04/19/21 14:01	05/05/21 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.4		40 - 110					04/19/21 14:01	05/05/21 12:28	1
Y Carrier	89.3		40 - 110					04/19/21 14:01	05/05/21 12:28	1



# Client Sample Results

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

Job ID: 500-197405-2

**Client Sample ID: MW-14**  
Date Collected: 04/08/21 11:00  
Date Received: 04/09/21 09:30

**Lab Sample ID: 500-197405-2**  
Matrix: Water

**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	<0.605	U	0.390	0.393	5.00	0.605	pCi/L		05/13/21 11:32	1

**Client Sample ID: MW-17**  
Date Collected: 04/08/21 10:19  
Date Received: 04/14/21 09:25

**Lab Sample ID: 500-197405-3**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.121	U	0.0683	0.0684	1.00	0.121	pCi/L	04/19/21 13:32	05/12/21 22:25	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	74.5		40 - 110					04/19/21 13:32	05/12/21 22:25	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	<0.485	U	0.306	0.308	1.00	0.485	pCi/L	04/19/21 14:01	05/05/21 12:29	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	74.5		40 - 110					04/19/21 14:01	05/05/21 12:29	1
Y Carrier	89.0		40 - 110					04/19/21 14:01	05/05/21 12:29	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	<0.485	U	0.314	0.316	5.00	0.485	pCi/L		05/13/21 11:32	1

**Client Sample ID: MW-20**  
Date Collected: 04/08/21 11:44  
Date Received: 04/09/21 09:30

**Lab Sample ID: 500-197405-4**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.206		0.138	0.140	1.00	0.194	pCi/L	04/20/21 14:06	05/12/21 06:26	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	73.0		40 - 110					04/20/21 14:06	05/12/21 06:26	1

# Client Sample Results

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

Job ID: 500-197405-2

**Client Sample ID: MW-20**

**Lab Sample ID: 500-197405-4**

Date Collected: 04/08/21 11:44

Matrix: Water

Date Received: 04/09/21 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.673	U	0.392	0.392	1.00	0.673	pCi/L	04/20/21 14:36	05/05/21 17:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.0		40 - 110					04/20/21 14:36	05/05/21 17:23	1
Y Carrier	86.7		40 - 110					04/20/21 14:36	05/05/21 17:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.673	U	0.416	0.416	5.00	0.673	pCi/L		05/13/21 12:35	1

**Client Sample ID: MW-21**

**Lab Sample ID: 500-197405-5**

Date Collected: 04/08/21 12:47

Matrix: Water

Date Received: 04/09/21 09:30

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.437		0.143	0.148	1.00	0.142	pCi/L	04/20/21 14:06	05/12/21 06:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					04/20/21 14:06	05/12/21 06:27	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	0.747		0.346	0.353	1.00	0.507	pCi/L	04/20/21 14:36	05/05/21 17:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.4		40 - 110					04/20/21 14:36	05/05/21 17:23	1
Y Carrier	86.4		40 - 110					04/20/21 14:36	05/05/21 17:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.18		0.374	0.383	5.00	0.507	pCi/L		05/13/21 12:35	1

# Client Sample Results

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

Job ID: 500-197405-2

**Client Sample ID: MCB DUPLICATE**

**Lab Sample ID: 500-197405-6**

Date Collected: 04/08/21 00:00

Matrix: Water

Date Received: 04/14/21 09:25

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.175	U	0.112	0.112	1.00	0.175	pCi/L	04/20/21 14:06	05/12/21 06:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.5		40 - 110					04/20/21 14:06	05/12/21 06:27	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>0.730</b>		0.391	0.397	1.00	0.581	pCi/L	04/20/21 14:36	05/05/21 17:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.5		40 - 110					04/20/21 14:36	05/05/21 17:23	1
Y Carrier	77.4		40 - 110					04/20/21 14:36	05/05/21 17:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.847</b>		0.407	0.412	5.00	0.581	pCi/L		05/13/21 12:35	1

# Definitions/Glossary

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

Job ID: 500-197405-2

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-197405-2

## Rad

### Prep Batch: 506127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	PrecSep-21	
500-197405-2	MW-14	Total/NA	Water	PrecSep-21	
500-197405-3	MW-17	Total/NA	Water	PrecSep-21	
MB 160-506127/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-506127/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-197405-3 DU	MW-17	Total/NA	Water	PrecSep-21	

### Prep Batch: 506128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-1	MW-13	Total/NA	Water	PrecSep_0	
500-197405-2	MW-14	Total/NA	Water	PrecSep_0	
500-197405-3	MW-17	Total/NA	Water	PrecSep_0	
MB 160-506128/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-506128/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-197405-3 DU	MW-17	Total/NA	Water	PrecSep_0	

### Prep Batch: 506293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-4	MW-20	Total/NA	Water	PrecSep-21	
500-197405-5	MW-21	Total/NA	Water	PrecSep-21	
500-197405-6	MCB DUPLICATE	Total/NA	Water	PrecSep-21	
MB 160-506293/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-506293/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-197405-5 DU	MW-21	Total/NA	Water	PrecSep-21	

### Prep Batch: 506298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-197405-4	MW-20	Total/NA	Water	PrecSep_0	
500-197405-5	MW-21	Total/NA	Water	PrecSep_0	
500-197405-6	MCB DUPLICATE	Total/NA	Water	PrecSep_0	
MB 160-506298/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-506298/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-197405-5 DU	MW-21	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-197405-2

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

**Lab Sample ID: MB 160-506127/25-A**  
**Matrix: Water**  
**Analysis Batch: 509250**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 506127**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.112	U	0.0542	0.0543	1.00	0.112	pCi/L	04/19/21 13:32	05/11/21 10:39	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					04/19/21 13:32	05/11/21 10:39	1
	77.6									

**Lab Sample ID: LCS 160-506127/1-A**  
**Matrix: Water**  
**Analysis Batch: 509250**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 506127**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.01		1.18	1.00	0.110	pCi/L	97	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	77.6		40 - 110						

**Lab Sample ID: 500-197405-3 DU**  
**Matrix: Water**  
**Analysis Batch: 509333**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**  
**Prep Batch: 506127**

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	<0.121	U	<0.129	U	0.0524	1.00	0.129	pCi/L	0.50	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	67.9		40 - 110							

**Lab Sample ID: MB 160-506293/23-A**  
**Matrix: Water**  
**Analysis Batch: 509333**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 506293**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.132	U	0.0441	0.0443	1.00	0.132	pCi/L	04/20/21 14:06	05/12/21 06:31	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110					04/20/21 14:06	05/12/21 06:31	1
	71.2									

**Lab Sample ID: LCS 160-506293/1-A**  
**Matrix: Water**  
**Analysis Batch: 509332**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 506293**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.83		1.16	1.00	0.151	pCi/L	95	75 - 125

Eurofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-197405-2

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

Lab Sample ID: LCS 160-506293/1-A  
Matrix: Water  
Analysis Batch: 509332

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 506293

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	77.0		40 - 110

Lab Sample ID: 500-197405-5 DU  
Matrix: Water  
Analysis Batch: 509332

Client Sample ID: MW-21  
Prep Type: Total/NA  
Prep Batch: 506293

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-226	0.437		0.4441		0.153	1.00	0.154	pCi/L	0.02	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	78.2		40 - 110

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

Lab Sample ID: MB 160-506128/25-A  
Matrix: Water  
Analysis Batch: 508446

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 506128

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.432	U	0.276	0.278	1.00	0.432	pCi/L	04/19/21 14:01	05/05/21 12:28	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		40 - 110	04/19/21 14:01	05/05/21 12:28	1
Y Carrier	88.2		40 - 110	04/19/21 14:01	05/05/21 12:28	1

Lab Sample ID: LCS 160-506128/1-A  
Matrix: Water  
Analysis Batch: 508483

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 506128

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Radium-228	7.23	7.407		0.942	1.00	0.360	pCi/L	102	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	77.6		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: 500-197405-3 DU  
Matrix: Water  
Analysis Batch: 508446

Client Sample ID: MW-17  
Prep Type: Total/NA  
Prep Batch: 506128

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	<0.485	U	<0.496	U	0.289	1.00	0.496	pCi/L	0.41	1

Eurofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-197405-2

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

**Lab Sample ID: 500-197405-3 DU**  
**Matrix: Water**  
**Analysis Batch: 508446**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**  
**Prep Batch: 506128**

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	67.9		40 - 110
Y Carrier	89.3		40 - 110

**Lab Sample ID: MB 160-506298/23-A**  
**Matrix: Water**  
**Analysis Batch: 508473**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 506298**

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	<0.524	U	0.305	0.305	1.00	0.524	pCi/L	04/20/21 14:36	05/05/21 17:23	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	70.9		40 - 110	04/20/21 14:36	05/05/21 17:23	1
Y Carrier	85.6		40 - 110	04/20/21 14:36	05/05/21 17:23	1

**Lab Sample ID: LCS 160-506298/1-A**  
**Matrix: Water**  
**Analysis Batch: 508473**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 506298**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	77.0		40 - 110
Y Carrier	86.7		40 - 110

**Lab Sample ID: 500-197405-5 DU**  
**Matrix: Water**  
**Analysis Batch: 508473**

**Client Sample ID: MW-21**  
**Prep Type: Total/NA**  
**Prep Batch: 506298**

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.747		0.5158		0.298	1.00	0.443	pCi/L	0.35	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	78.2		40 - 110
Y Carrier	88.2		40 - 110



# Lab Chronicle

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

Job ID: 500-197405-2

**Client Sample ID: MW-13**

**Lab Sample ID: 500-197405-1**

**Date Collected: 04/08/21 09:25**

**Matrix: Water**

**Date Received: 04/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			506127	04/19/21 13:32	RBR	TAL SL
Total/NA	Analysis	903.0		1	509250	05/11/21 10:38	ANW	TAL SL
Total/NA	Prep	PrecSep_0			506128	04/19/21 14:01	RBR	TAL SL
Total/NA	Analysis	904.0		1	508446	05/05/21 12:28	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	509476	05/13/21 11:32	SCB	TAL SL

**Client Sample ID: MW-14**

**Lab Sample ID: 500-197405-2**

**Date Collected: 04/08/21 11:00**

**Matrix: Water**

**Date Received: 04/09/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			506127	04/19/21 13:32	RBR	TAL SL
Total/NA	Analysis	903.0		1	509250	05/11/21 10:38	ANW	TAL SL
Total/NA	Prep	PrecSep_0			506128	04/19/21 14:01	RBR	TAL SL
Total/NA	Analysis	904.0		1	508446	05/05/21 12:28	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	509476	05/13/21 11:32	SCB	TAL SL

**Client Sample ID: MW-17**

**Lab Sample ID: 500-197405-3**

**Date Collected: 04/08/21 10:19**

**Matrix: Water**

**Date Received: 04/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			506127	04/19/21 13:32	RBR	TAL SL
Total/NA	Analysis	903.0		1	509333	05/12/21 22:25	FLC	TAL SL
Total/NA	Prep	PrecSep_0			506128	04/19/21 14:01	RBR	TAL SL
Total/NA	Analysis	904.0		1	508446	05/05/21 12:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	509476	05/13/21 11:32	SCB	TAL SL

**Client Sample ID: MW-20**

**Lab Sample ID: 500-197405-4**

**Date Collected: 04/08/21 11:44**

**Matrix: Water**

**Date Received: 04/09/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			506293	04/20/21 14:06	RBR	TAL SL
Total/NA	Analysis	903.0		1	509332	05/12/21 06:26	FLC	TAL SL
Total/NA	Prep	PrecSep_0			506298	04/20/21 14:36	RBR	TAL SL
Total/NA	Analysis	904.0		1	508473	05/05/21 17:23	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	509483	05/13/21 12:35	SCB	TAL SL

# Lab Chronicle

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

Job ID: 500-197405-2

**Client Sample ID: MW-21**

**Lab Sample ID: 500-197405-5**

**Date Collected: 04/08/21 12:47**

**Matrix: Water**

**Date Received: 04/09/21 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			506293	04/20/21 14:06	RBR	TAL SL
Total/NA	Analysis	903.0		1	509332	05/12/21 06:27	FLC	TAL SL
Total/NA	Prep	PrecSep_0			506298	04/20/21 14:36	RBR	TAL SL
Total/NA	Analysis	904.0		1	508473	05/05/21 17:23	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	509483	05/13/21 12:35	SCB	TAL SL

**Client Sample ID: MCB DUPLICATE**

**Lab Sample ID: 500-197405-6**

**Date Collected: 04/08/21 00:00**

**Matrix: Water**

**Date Received: 04/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			506293	04/20/21 14:06	RBR	TAL SL
Total/NA	Analysis	903.0		1	509332	05/12/21 06:27	FLC	TAL SL
Total/NA	Prep	PrecSep_0			506298	04/20/21 14:36	RBR	TAL SL
Total/NA	Analysis	904.0		1	508473	05/05/21 17:23	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	509483	05/13/21 12:35	SCB	TAL SL

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-197405-2

## Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

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

**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**

**eurofins** Environment Testing  
 America

<b>Client Information</b>		Sampler: <i>Mitchel Dolan</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No 500-90414-40416 1											
Client Contact: Mitchel Dolan		Phone: <i>262-622-1143</i>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin: <i>IL</i>		Page Page 1 of 1											
Company: KPRG and Associates Inc		PWSID		<b>Analysis Requested</b>						Job #: <i>500-197405</i>									
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Perform MS/MSD (Yes or No)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">2540C, 4500 F, C, SM4500 Cl_E, SM4500_HH, SM4500_SO4_E</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">903.0 - Radium 226</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">904.0 - Radium 228</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Ra226/Ra228_GFPC - Combined</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">6010C 6020A, 7470A</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of containers</td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500 F, C, SM4500 Cl_E, SM4500_HH, SM4500_SO4_E	903.0 - Radium 226	904.0 - Radium 228	Ra226/Ra228_GFPC - Combined	6010C 6020A, 7470A	Total Number of containers	Preservation Codes	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500 F, C, SM4500 Cl_E, SM4500_HH, SM4500_SO4_E	903.0 - Radium 226							904.0 - Radium 228	Ra226/Ra228_GFPC - Combined	6010C 6020A, 7470A	Total Number of containers						
City: Brookfield		TAT Requested (days)								A HCL M Hexane		B NaOH N None		C Zn Acetate O AsNaO2					
State Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								D Nitric Acid P Na2O4S		E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3					
Phone: 262-781-0475(Tel)		PO #: 4501908159								G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate		I Ice U Acetone					
Email: mitcheld@kprginc.com		WO #		J DI Water V MCAA		K EDTA W pH 4-5		L EDA Z other (specify)											
Project Name: Powerton CCR MCB		Project #: 50018578		Other:						Special Instructions/Note									
Site: SSOW#		SSOW#																	
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code									
<i>1</i> MW-13		<i>4/8/21</i>		<i>0925</i>		<i>G</i>		<i>Water</i>		<i>X X X X X</i>									
<i>2</i> MW-14		<i>4/8/21</i>		<i>1100</i>		<i>G</i>		<i>Water</i>		<i>X X X X X</i>									
<i>3</i> MW-17		<i>4/8/21</i>		<i>1019</i>		<i>G</i>		<i>Water</i>		<i>X X X X X</i>									
<i>4</i> MW-20		<i>4/8/21</i>		<i>1144</i>		<i>G</i>		<i>Water</i>		<i>X X X X X</i>									
<i>5</i> MW-21		<i>4/8/21</i>		<i>1247</i>		<i>G</i>		<i>Water</i>		<i>X X X X X</i>									
<i>6</i> <b>MCB DUPLICATE</b>		<i>4/8/21</i>		<i>-</i>		<i>G</i>		<i>Water</i>		<i>X X X X X</i>									
<del>MW-13</del>								<i>Water</i>											
<del>MW-14</del>								<i>Water</i>											
<del>MW-17</del>								<i>Water</i>											
<del>MW-20</del>								<i>Water</i>											
<del>MW-21</del>								<i>Water</i>											
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>													
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements													
Empty Kit Relinquished by		Date		Time		Method of Shipment													
Relinquished by: <i>MD</i>		Date/Time: <i>4/8/2021 / 1630</i>		Company: <i>KPRG</i>		Received by: <i>FED EX</i>		Date/Time: <i>4/8/2021 / 1630</i>		Company:									
Relinquished by:		Date/Time:		Company:		Received by: <i>Ami Sachs</i>		Date/Time: <i>4/9/21 0930</i>		Company: <i>ETA CHI</i>									
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>13</i>															



ORIGIN ID:PIAA (2 ST 19  
MITCHEL DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

10:30 A

3790 3APR21  
04 09 5 LB  
7SSFE2201  
13 IN

Part # 150297-4334236/27195 07/21

WESTMONT, IL 60559  
UNITED STATES US

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST



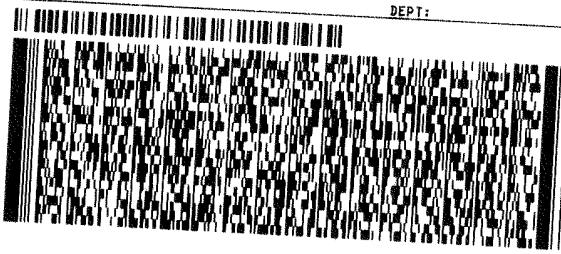
UNIVERSITY PARK IL 60484

500-197405 Wayb

(708) 634-6200  
INU  
PO:

REF

DEPT:



FedEx  
Express



AN 0103301251121

TRK# 7857 5721 3790  
0201

FRI - 09 APR 10:30A  
PRIORITY OVERNIGHT

XH JOTA

4891-

60484  
IL-US ORD





ORIGIN ID:PIAA (262) 622-1143  
MITCHEL DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 08APR21  
ACTWGT: 24.10 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST



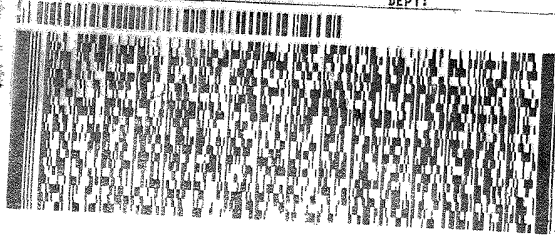
UNIVERSITY PARK IL 60484

500-197405 Wayb

(709) 634-5200

REF

DEPT:



FedEx  
Express



AN1015012842

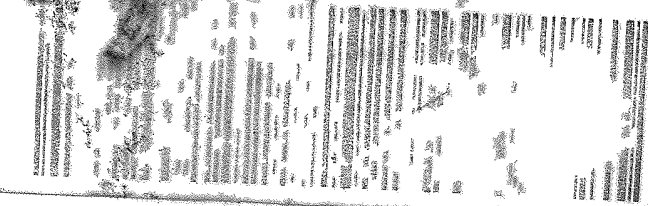
TRK# 0201 785

3

APR 08 - 10:30A  
PRIORITY OVERNIGHT

60484

IL-US QND



Part #:156297-4N34FH36/2199-07/21

**Chain of Custody Record**



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:		Mockler, Diana J	Mockler, Diana J		500-147219-1
Shipping/Receiving		Phone:	E-Mail:	State of Origin:	Page:
Company:			Diana.Mockler@Eurofins.com	Illinois	Page 1 of 1
Address:		Accreditations Required (See note):		Job #:	Preservation Codes:
13715 Rider Trail North,		NELAP - Illinois		500-197405-2	M - Hexane N - None O - AsNaO2 P - Na2SO4 Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:
City:	Earth City	Due Date Requested:	Analysis Requested		
State, Zip:	MO, 63045	4/30/2021	Total Number of Containers		
Phone:	314-298-8566(Tel) 314-298-8757(Fax)	TAT Requested (days):	904.0/PreSep. 0 Standard Target List		
Email:		PO #:	903.0/PreSep. 21 Standard Target List		
Project Name:	Powertron CCR MCB	WO #:	Perform MS/MSD (Yes or No)		
Site:		Project #:	Field Filtered Sample (Yes or No)		
		SSOW#:	Preservation Code:		
<b>Sample Identification - Client ID (Lab ID)</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (Water, Spiked, On-site, etc)</b>	<b>Special Instructions/Note:</b>
MW-14 (500-197405-2)	4/8/21	11:00 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-20 (500-197405-4)	4/8/21	11:44 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-21 (500-197405-5)	4/8/21	12:47 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
<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:					
Relinquished by: <i>[Signature]</i>					
Relinquished by: <i>[Signature]</i>					
Relinquished by: <i>[Signature]</i>					
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Custody Seal No.:					
Date/Time: 4/9/21					
Date/Time: 4/10/21 08:15					
Date/Time:					
Company:					
Company:					
Company:					
Cooler Temperature(s) °C and Other Remarks:					







# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-197405-2

**Login Number: 197405**

**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.	False	
Cooler Temperature is recorded.	True	1.3,18.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-197405-2

**Login Number: 197405**

**List Number: 2**

**Creator: O'Gara, Mallory L**

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

**List Creation: 04/10/21 10:32 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: 500-197405-2

**Login Number: 197405**

**List Number: 3**

**Creator: Worthington, Sierra M**

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

**List Creation: 04/15/21 12:48 PM**

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



# Tracer/Carrier Summary

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

Job ID: 500-197405-2

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-197405-1	MW-13	77.0
500-197405-2	MW-14	59.4
500-197405-3	MW-17	74.5
500-197405-3 DU	MW-17	67.9
500-197405-4	MW-20	73.0
500-197405-5	MW-21	76.4
500-197405-5 DU	MW-21	78.2
500-197405-6	MCB DUPLICATE	68.5
LCS 160-506127/1-A	Lab Control Sample	77.6
LCS 160-506293/1-A	Lab Control Sample	77.0
MB 160-506127/25-A	Method Blank	77.6
MB 160-506293/23-A	Method Blank	71.2

#### Tracer/Carrier Legend

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-197405-1	MW-13	77.0	88.2
500-197405-2	MW-14	59.4	89.3
500-197405-3	MW-17	74.5	89.0
500-197405-3 DU	MW-17	67.9	89.3
500-197405-4	MW-20	73.0	86.7
500-197405-5	MW-21	76.4	86.4
500-197405-5 DU	MW-21	78.2	88.2
500-197405-6	MCB DUPLICATE	68.5	77.4
LCS 160-506128/1-A	Lab Control Sample	77.6	85.2
LCS 160-506298/1-A	Lab Control Sample	77.0	86.7
MB 160-506128/25-A	Method Blank	77.6	88.2
MB 160-506298/23-A	Method Blank	70.9	85.6

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

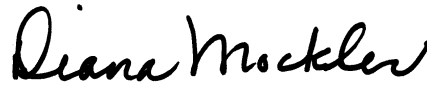
## ANALYTICAL REPORT

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

Laboratory Job ID: 500-198952-1  
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:  
6/2/2021 10:56:16 AM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*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: Powerton CCR

Job ID: 500-198952-1

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**Job ID: 500-198952-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-198952-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/11/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 0.3° C, 0.4° C, 1.0° C, 1.1° C, 1.1° C, 1.1° C, 3.4° C, 4.1° C and 5.3° C.

**Metals**

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

**General Chemistry**

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

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# Detection Summary

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

Job ID: 500-198952-1

## Client Sample ID: MW-18

## Lab Sample ID: 500-198952-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013		0.010		mg/L	1		6010C	Total Recoverable
Barium	0.12		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.66		0.10		mg/L	2		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0050		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	880		10		mg/L	1		SM 2540C	Total/NA
Chloride	140		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.66		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	350		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-19

## Lab Sample ID: 500-198952-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.060		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.3		0.25		mg/L	5		6020A	Total Recoverable
Calcium	68		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.047		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	420		10		mg/L	1		SM 2540C	Total/NA
Chloride	33		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.17		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	110		25		mg/L	5		SM 4500 SO4 E	Total/NA

## Client Sample ID: Duplicate

## Lab Sample ID: 500-198952-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.010		mg/L	1		6010C	Total Recoverable
Barium	0.13		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.60		0.050		mg/L	1		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0064		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Total/NA
Chloride	140		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.68		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	350		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-08

## Lab Sample ID: 500-198952-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.021		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0020		0.0010		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Detection Summary

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

Job ID: 500-198952-1

## Client Sample ID: MW-08 (Continued)

## Lab Sample ID: 500-198952-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.092		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.54		0.050		mg/L	1		6020A	Total Recoverable
Calcium	97		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.011		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	680		10		mg/L	1		SM 2540C	Total/NA
Chloride	120		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.39		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	110		25		mg/L	5		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-01

## Lab Sample ID: 500-198952-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.043		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.23		0.050		mg/L	1		6020A	Total Recoverable
Calcium	84		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.010		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	450		10		mg/L	1		SM 2540C	Total/NA
Chloride	53		4.0		mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	38		10		mg/L	2		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-15

## Lab Sample ID: 500-198952-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.026		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0048		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.065		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.3		0.050		mg/L	1		6020A	Total Recoverable
Calcium	180		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.014		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.0071		0.0025		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1500		10		mg/L	1		SM 2540C	Total/NA
Chloride	180		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.54		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	520		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-17

## Lab Sample ID: 500-198952-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.018		0.010		mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Detection Summary

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

Job ID: 500-198952-1

## Client Sample ID: MW-17 (Continued)

## Lab Sample ID: 500-198952-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0053		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.027		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.99		0.050		mg/L	1		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.049		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1200		10		mg/L	1		SM 2540C	Total/NA
Chloride	160		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.77		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	480		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-09

## Lab Sample ID: 500-198952-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.035		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.0		0.050		mg/L	1		6020A	Total Recoverable
Calcium	74		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.025		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	410		10		mg/L	1		SM 2540C	Total/NA
Chloride	33		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	120		25		mg/L	5		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-11

## Lab Sample ID: 500-198952-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.012		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.024		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.25		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.0		0.050		mg/L	1		6020A	Total Recoverable
Calcium	99		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0019		0.0010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.032		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	820		10		mg/L	1		SM 2540C	Total/NA
Chloride	130		6.0		mg/L	3		SM 4500 Cl- E	Total/NA
Fluoride	0.72		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	230		25		mg/L	5		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Detection Summary

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

Job ID: 500-198952-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-198952-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.017		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0025		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.058		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.40		0.050		mg/L	1		6020A	Total Recoverable
Calcium	89		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.016		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	990		10		mg/L	1		SM 2540C	Total/NA
Chloride	140		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.23		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	350		100		mg/L	20		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



# Method Summary

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

Job ID: 500-198952-1

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

#### Protocol References:

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

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 500-198952-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198952-1	MW-18	Water	05/10/21 14:11	05/11/21 14:55	
500-198952-2	MW-19	Water	05/10/21 15:16	05/11/21 14:55	
500-198952-3	Duplicate	Water	05/10/21 00:00	05/11/21 14:55	
500-198952-4	MW-08	Water	05/11/21 15:41	05/12/21 14:55	
500-198952-5	MW-01	Water	05/11/21 13:06	05/12/21 14:55	
500-198952-6	MW-15	Water	05/12/21 10:31	05/13/21 13:40	
500-198952-7	MW-17	Water	05/12/21 09:04	05/13/21 13:40	
500-198952-8	MW-09	Water	05/13/21 13:00	05/14/21 09:25	
500-198952-9	MW-11	Water	05/13/21 11:46	05/14/21 09:25	
500-198952-10	MW-12	Water	05/13/21 10:50	05/14/21 09:25	



# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-18**

**Lab Sample ID: 500-198952-1**

Date Collected: 05/10/21 14:11

Matrix: Water

Date Received: 05/11/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.013		0.010		mg/L		05/14/21 08:28	05/14/21 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:50	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:50	1
Barium	0.12		0.0025		mg/L		05/14/21 08:28	05/17/21 17:50	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:50	1
Boron	0.66		0.10		mg/L		05/14/21 08:28	05/18/21 13:48	2
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:50	1
Calcium	130		0.20		mg/L		05/14/21 08:28	05/17/21 17:50	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:50	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:50	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:50	1
Molybdenum	0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:50	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:50	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:08	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	880		10		mg/L			05/13/21 06:09	1
Chloride	140		10		mg/L			06/01/21 15:43	5
Fluoride	0.66		0.10		mg/L			05/27/21 08:12	1
Sulfate	350		100		mg/L			06/01/21 14:09	20

# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-19**

**Lab Sample ID: 500-198952-2**

Date Collected: 05/10/21 15:16

Matrix: Water

Date Received: 05/11/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:54	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:54	1
<b>Barium</b>	<b>0.060</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:54	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:54	1
<b>Boron</b>	<b>2.3</b>		0.25		mg/L		05/14/21 08:28	05/18/21 13:52	5
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:54	1
<b>Calcium</b>	<b>68</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:54	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:54	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:54	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:54	1
<b>Molybdenum</b>	<b>0.047</b>		0.0050		mg/L		05/14/21 08:28	05/17/21 17:54	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:54	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>420</b>		10		mg/L			05/13/21 06:11	1
<b>Chloride</b>	<b>33</b>		2.0		mg/L			06/01/21 15:44	1
<b>Fluoride</b>	<b>0.17</b>		0.10		mg/L			05/27/21 08:15	1
<b>Sulfate</b>	<b>110</b>		25		mg/L			06/01/21 14:02	5



# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-198952-3**

Date Collected: 05/10/21 00:00

Matrix: Water

Date Received: 05/11/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		05/14/21 08:28	05/14/21 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:04	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:04	1
Barium	0.13		0.0025		mg/L		05/14/21 08:28	05/17/21 18:04	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:04	1
Boron	0.60		0.050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Calcium	130		0.20		mg/L		05/14/21 08:28	05/17/21 18:04	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:04	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Molybdenum	0.0064		0.0050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 18:04	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/14/21 04:43	1
Chloride	140		10		mg/L			06/01/21 15:44	5
Fluoride	0.68		0.10		mg/L			05/27/21 08:18	1
Sulfate	350		100		mg/L			06/01/21 14:11	20

# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-08**

**Lab Sample ID: 500-198952-4**

Date Collected: 05/11/21 15:41

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		05/14/21 08:28	05/14/21 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:07	1
Arsenic	0.0020		0.0010		mg/L		05/14/21 08:28	05/17/21 18:07	1
Barium	0.092		0.0025		mg/L		05/14/21 08:28	05/17/21 18:07	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:07	1
Boron	0.54		0.050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Calcium	97		0.20		mg/L		05/14/21 08:28	05/17/21 18:07	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:07	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Molybdenum	0.011		0.0050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 18:07	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:19	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	680		10		mg/L			05/14/21 04:45	1
Chloride	120		10		mg/L			06/01/21 15:45	5
Fluoride	0.39		0.10		mg/L			05/27/21 08:21	1
Sulfate	110		25		mg/L			06/01/21 14:04	5

# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-198952-5**

Date Collected: 05/11/21 13:06

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:11	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:11	1
<b>Barium</b>	<b>0.043</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 18:11	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:11	1
<b>Boron</b>	<b>0.23</b>		0.050		mg/L		05/14/21 08:28	05/17/21 18:11	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:11	1
<b>Calcium</b>	<b>84</b>		0.20		mg/L		05/14/21 08:28	05/17/21 18:11	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:11	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:11	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:11	1
<b>Molybdenum</b>	<b>0.010</b>		0.0050		mg/L		05/14/21 08:28	05/17/21 18:11	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 18:11	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>450</b>		10		mg/L			05/14/21 04:48	1
<b>Chloride</b>	<b>53</b>		4.0		mg/L			06/01/21 15:45	2
<b>Fluoride</b>	<b>0.20</b>		0.10		mg/L			05/27/21 08:25	1
<b>Sulfate</b>	<b>38</b>		10		mg/L			06/01/21 14:04	2

# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-198952-6**

Date Collected: 05/12/21 10:31

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.026		0.010		mg/L		05/14/21 08:28	05/14/21 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:14	1
Arsenic	0.0048		0.0010		mg/L		05/14/21 08:28	05/17/21 18:14	1
Barium	0.065		0.0025		mg/L		05/14/21 08:28	05/17/21 18:14	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:14	1
Boron	1.3		0.050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Calcium	180		0.20		mg/L		05/14/21 08:28	05/17/21 18:14	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:14	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Molybdenum	0.014		0.0050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Selenium	0.0071		0.0025		mg/L		05/14/21 08:28	05/17/21 18:14	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:23	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			05/18/21 00:21	1
Chloride	180		10		mg/L			06/01/21 15:45	5
Fluoride	0.54		0.10		mg/L			05/27/21 08:28	1
Sulfate	520		100		mg/L			06/01/21 14:14	20

# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-17**

**Lab Sample ID: 500-198952-7**

Date Collected: 05/12/21 09:04

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.018		0.010		mg/L		05/14/21 08:28	05/14/21 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:18	1
Arsenic	0.0053		0.0010		mg/L		05/14/21 08:28	05/17/21 18:18	1
Barium	0.027		0.0025		mg/L		05/14/21 08:28	05/17/21 18:18	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:18	1
Boron	0.99		0.050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Calcium	130		0.20		mg/L		05/14/21 08:28	05/17/21 18:18	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:18	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Molybdenum	0.049		0.0050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 18:18	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:25	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			05/18/21 00:23	1
Chloride	160		10		mg/L			06/01/21 15:46	5
Fluoride	0.77		0.10		mg/L			05/27/21 08:31	1
Sulfate	480		100		mg/L			06/01/21 14:07	20

# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-09**

**Lab Sample ID: 500-198952-8**

Date Collected: 05/13/21 13:00

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/21 08:28	05/19/21 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 18:08	1
Arsenic	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:08	1
<b>Barium</b>	<b>0.035</b>		0.0025		mg/L		05/19/21 08:28	05/19/21 18:08	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:08	1
<b>Boron</b>	<b>2.0</b>		0.050		mg/L		05/19/21 08:28	05/19/21 18:08	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:08	1
<b>Calcium</b>	<b>74</b>		0.20		mg/L		05/19/21 08:28	05/19/21 18:08	1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 18:08	1
Cobalt	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:08	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:08	1
<b>Molybdenum</b>	<b>0.025</b>		0.0050		mg/L		05/19/21 08:28	05/19/21 18:08	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 18:08	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>410</b>		10		mg/L			05/19/21 05:27	1
<b>Chloride</b>	<b>33</b>		2.0		mg/L			06/01/21 15:46	1
<b>Fluoride</b>	<b>0.20</b>		0.10		mg/L			05/27/21 08:34	1
<b>Sulfate</b>	<b>120</b>		25		mg/L			06/01/21 14:08	5

# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-198952-9**

Date Collected: 05/13/21 11:46

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.010		mg/L		05/19/21 08:28	05/19/21 17:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 18:11	1
Arsenic	0.024		0.0010		mg/L		05/19/21 08:28	05/19/21 18:11	1
Barium	0.25		0.0025		mg/L		05/19/21 08:28	05/19/21 18:11	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:11	1
Boron	1.0		0.050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Calcium	99		0.20		mg/L		05/19/21 08:28	05/19/21 18:11	1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Cobalt	0.0019		0.0010		mg/L		05/19/21 08:28	05/19/21 18:11	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Molybdenum	0.032		0.0050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 18:11	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 18:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	820		10		mg/L			05/19/21 05:30	1
Chloride	130		6.0		mg/L			06/01/21 15:46	3
Fluoride	0.72		0.10		mg/L			05/27/21 08:37	1
Sulfate	230		25		mg/L			06/01/21 14:11	5

# Client Sample Results

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

Job ID: 500-198952-1

**Client Sample ID: MW-12**

**Lab Sample ID: 500-198952-10**

Date Collected: 05/13/21 10:50

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.010		mg/L		05/19/21 08:28	05/19/21 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 18:15	1
Arsenic	0.0025		0.0010		mg/L		05/19/21 08:28	05/19/21 18:15	1
Barium	0.058		0.0025		mg/L		05/19/21 08:28	05/19/21 18:15	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:15	1
Boron	0.40		0.050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Calcium	89		0.20		mg/L		05/19/21 08:28	05/19/21 18:15	1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Cobalt	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:15	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Molybdenum	0.016		0.0050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 18:15	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 18:15	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:32	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	990		10		mg/L			05/19/21 05:32	1
Chloride	140		10		mg/L			06/01/21 15:47	5
Fluoride	0.23		0.10		mg/L			05/27/21 08:50	1
Sulfate	350		100		mg/L			06/01/21 14:12	20



# Definitions/Glossary

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

Job ID: 500-198952-1

## Qualifiers

### General Chemistry

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-198952-1

## Metals

### Prep Batch: 598871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total Recoverable	Water	3005A	
500-198952-2	MW-19	Total Recoverable	Water	3005A	
500-198952-3	Duplicate	Total Recoverable	Water	3005A	
500-198952-4	MW-08	Total Recoverable	Water	3005A	
500-198952-5	MW-01	Total Recoverable	Water	3005A	
500-198952-6	MW-15	Total Recoverable	Water	3005A	
500-198952-7	MW-17	Total Recoverable	Water	3005A	
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 599211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total Recoverable	Water	6010C	598871
500-198952-2	MW-19	Total Recoverable	Water	6010C	598871
500-198952-3	Duplicate	Total Recoverable	Water	6010C	598871
500-198952-4	MW-08	Total Recoverable	Water	6010C	598871
500-198952-5	MW-01	Total Recoverable	Water	6010C	598871
500-198952-6	MW-15	Total Recoverable	Water	6010C	598871
500-198952-7	MW-17	Total Recoverable	Water	6010C	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6010C	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6010C	598871

### Analysis Batch: 599524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total Recoverable	Water	6020A	598871
500-198952-2	MW-19	Total Recoverable	Water	6020A	598871
500-198952-3	Duplicate	Total Recoverable	Water	6020A	598871
500-198952-4	MW-08	Total Recoverable	Water	6020A	598871
500-198952-5	MW-01	Total Recoverable	Water	6020A	598871
500-198952-6	MW-15	Total Recoverable	Water	6020A	598871
500-198952-7	MW-17	Total Recoverable	Water	6020A	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6020A	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598871

### Prep Batch: 599713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-8	MW-09	Total Recoverable	Water	3005A	
500-198952-9	MW-11	Total Recoverable	Water	3005A	
500-198952-10	MW-12	Total Recoverable	Water	3005A	
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 599734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total Recoverable	Water	6020A	598871
500-198952-2	MW-19	Total Recoverable	Water	6020A	598871

### Analysis Batch: 599943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-8	MW-09	Total Recoverable	Water	6010C	599713
500-198952-9	MW-11	Total Recoverable	Water	6010C	599713

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# QC Association Summary

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

Job ID: 500-198952-1

## Metals (Continued)

### Analysis Batch: 599943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-10	MW-12	Total Recoverable	Water	6010C	599713
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	6010C	599713
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	6010C	599713

### Prep Batch: 599957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	7470A	
500-198952-2	MW-19	Total/NA	Water	7470A	
500-198952-3	Duplicate	Total/NA	Water	7470A	
500-198952-4	MW-08	Total/NA	Water	7470A	
500-198952-5	MW-01	Total/NA	Water	7470A	
500-198952-6	MW-15	Total/NA	Water	7470A	
500-198952-7	MW-17	Total/NA	Water	7470A	
500-198952-8	MW-09	Total/NA	Water	7470A	
500-198952-9	MW-11	Total/NA	Water	7470A	
500-198952-10	MW-12	Total/NA	Water	7470A	
MB 500-599957/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-599957/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 599958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-8	MW-09	Total Recoverable	Water	6020A	599713
500-198952-9	MW-11	Total Recoverable	Water	6020A	599713
500-198952-10	MW-12	Total Recoverable	Water	6020A	599713
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	6020A	599713
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	6020A	599713

### Analysis Batch: 600226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	7470A	599957
500-198952-2	MW-19	Total/NA	Water	7470A	599957
500-198952-3	Duplicate	Total/NA	Water	7470A	599957
500-198952-4	MW-08	Total/NA	Water	7470A	599957
500-198952-5	MW-01	Total/NA	Water	7470A	599957
500-198952-6	MW-15	Total/NA	Water	7470A	599957
500-198952-7	MW-17	Total/NA	Water	7470A	599957
500-198952-8	MW-09	Total/NA	Water	7470A	599957
500-198952-9	MW-11	Total/NA	Water	7470A	599957
500-198952-10	MW-12	Total/NA	Water	7470A	599957
MB 500-599957/12-A	Method Blank	Total/NA	Water	7470A	599957
LCS 500-599957/13-A	Lab Control Sample	Total/NA	Water	7470A	599957

## General Chemistry

### Analysis Batch: 598492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	SM 2540C	
500-198952-2	MW-19	Total/NA	Water	SM 2540C	
MB 500-598492/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-598492/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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# QC Association Summary

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

Job ID: 500-198952-1

## General Chemistry

### Analysis Batch: 598813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-3	Duplicate	Total/NA	Water	SM 2540C	
500-198952-4	MW-08	Total/NA	Water	SM 2540C	
500-198952-5	MW-01	Total/NA	Water	SM 2540C	
MB 500-598813/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-598813/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 599402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-6	MW-15	Total/NA	Water	SM 2540C	
500-198952-7	MW-17	Total/NA	Water	SM 2540C	
MB 500-599402/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-599402/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 599631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-8	MW-09	Total/NA	Water	SM 2540C	
500-198952-9	MW-11	Total/NA	Water	SM 2540C	
500-198952-10	MW-12	Total/NA	Water	SM 2540C	
MB 500-599631/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-599631/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 601198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	SM 4500 F C	
500-198952-2	MW-19	Total/NA	Water	SM 4500 F C	
500-198952-3	Duplicate	Total/NA	Water	SM 4500 F C	
500-198952-4	MW-08	Total/NA	Water	SM 4500 F C	
500-198952-5	MW-01	Total/NA	Water	SM 4500 F C	
500-198952-6	MW-15	Total/NA	Water	SM 4500 F C	
500-198952-7	MW-17	Total/NA	Water	SM 4500 F C	
500-198952-8	MW-09	Total/NA	Water	SM 4500 F C	
500-198952-9	MW-11	Total/NA	Water	SM 4500 F C	
500-198952-10	MW-12	Total/NA	Water	SM 4500 F C	
MB 500-601198/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-601198/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 601767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-198952-2	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-198952-3	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-198952-4	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-198952-5	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-198952-6	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-198952-7	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-198952-8	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-198952-9	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-198952-10	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 500-601767/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-601767/47	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-601767/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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# QC Association Summary

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

Job ID: 500-198952-1

## General Chemistry (Continued)

### Analysis Batch: 601767 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-601767/48	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-198952-1 MS	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-198952-1 MSD	MW-18	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 601771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-198952-2	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-198952-3	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-198952-4	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-198952-5	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-198952-6	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-198952-7	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-198952-8	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-198952-9	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-198952-10	MW-12	Total/NA	Water	SM 4500 Cl- E	
MB 500-601771/38	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-601771/39	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-198952-1 MS	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-198952-1 MSD	MW-18	Total/NA	Water	SM 4500 Cl- E	

# QC Sample Results

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

Job ID: 500-198952-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-598871/1-A**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:01	1

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

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

**Lab Sample ID: MB 500-599713/1-A**  
**Matrix: Water**  
**Analysis Batch: 599943**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/21 08:28	05/19/21 16:54	1

**Lab Sample ID: LCS 500-599713/2-A**  
**Matrix: Water**  
**Analysis Batch: 599943**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.548		mg/L		110	80 - 120

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

**Lab Sample ID: MB 500-598871/1-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 16:42	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Barium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:42	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Calcium	<0.20		0.20		mg/L		05/14/21 08:28	05/17/21 16:42	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:42	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 16:42	1

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.506		mg/L		101	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120

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# QC Sample Results

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

Job ID: 500-198952-1

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

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.01		mg/L		100	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	9.28		mg/L		93	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Molybdenum	1.00	0.976		mg/L		98	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

**Lab Sample ID: MB 500-599713/1-A**  
**Matrix: Water**  
**Analysis Batch: 599958**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 17:15	1
Arsenic	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15	1
Barium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 17:15	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15	1
Boron	<0.050		0.050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Calcium	<0.20		0.20		mg/L		05/19/21 08:28	05/19/21 17:15	1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Cobalt	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Molybdenum	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 17:15	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 17:15	1

**Lab Sample ID: LCS 500-599713/2-A**  
**Matrix: Water**  
**Analysis Batch: 599958**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.508		mg/L		102	80 - 120
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Beryllium	0.0500	0.0483		mg/L		97	80 - 120
Boron	1.00	1.03		mg/L		103	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Calcium	10.0	8.88		mg/L		89	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.491		mg/L		98	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Molybdenum	1.00	0.944		mg/L		94	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

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# QC Sample Results

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

Job ID: 500-198952-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-599957/12-A**  
**Matrix: Water**  
**Analysis Batch: 600226**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 599957**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:04	1

**Lab Sample ID: LCS 500-599957/13-A**  
**Matrix: Water**  
**Analysis Batch: 600226**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 599957**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00223		mg/L		112	80 - 120

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

**Lab Sample ID: MB 500-598492/1**  
**Matrix: Water**  
**Analysis Batch: 598492**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/13/21 05:14	1

**Lab Sample ID: LCS 500-598492/2**  
**Matrix: Water**  
**Analysis Batch: 598492**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	238		mg/L		95	80 - 120

**Lab Sample ID: MB 500-598813/1**  
**Matrix: Water**  
**Analysis Batch: 598813**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/14/21 03:49	1

**Lab Sample ID: LCS 500-598813/2**  
**Matrix: Water**  
**Analysis Batch: 598813**

**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	270		mg/L		108	80 - 120

**Lab Sample ID: MB 500-599402/1**  
**Matrix: Water**  
**Analysis Batch: 599402**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/17/21 23:50	1



# QC Sample Results

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

Job ID: 500-198952-1

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

Lab Sample ID: LCS 500-599402/2  
Matrix: Water  
Analysis Batch: 599402

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 500-599631/1  
Matrix: Water  
Analysis Batch: 599631

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/19/21 05:04	1

Lab Sample ID: LCS 500-599631/2  
Matrix: Water  
Analysis Batch: 599631

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	236		mg/L		94	80 - 120

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

Lab Sample ID: MB 500-601771/38  
Matrix: Water  
Analysis Batch: 601771

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/01/21 15:43	1

Lab Sample ID: LCS 500-601771/39  
Matrix: Water  
Analysis Batch: 601771

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	21.9		mg/L		110	85 - 115

Lab Sample ID: 500-198952-1 MS  
Matrix: Water  
Analysis Batch: 601771

Client Sample ID: MW-18  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	140		20.0	157	4	mg/L		74	75 - 125

Lab Sample ID: 500-198952-1 MSD  
Matrix: Water  
Analysis Batch: 601771

Client Sample ID: MW-18  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	140		20.0	155	4	mg/L		67	75 - 125	1	20

# QC Sample Results

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

Job ID: 500-198952-1

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-601198/3  
Matrix: Water  
Analysis Batch: 601198

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/27/21 07:27	1

Lab Sample ID: LCS 500-601198/4  
Matrix: Water  
Analysis Batch: 601198

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	11.2		mg/L		112	80 - 120

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

Lab Sample ID: MB 500-601767/15  
Matrix: Water  
Analysis Batch: 601767

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/01/21 14:00	1

Lab Sample ID: MB 500-601767/47  
Matrix: Water  
Analysis Batch: 601767

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/01/21 14:17	1

Lab Sample ID: LCS 500-601767/16  
Matrix: Water  
Analysis Batch: 601767

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	23.0		mg/L		115	80 - 120

Lab Sample ID: LCS 500-601767/48  
Matrix: Water  
Analysis Batch: 601767

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	23.2		mg/L		116	80 - 120

Lab Sample ID: 500-198952-1 MS  
Matrix: Water  
Analysis Batch: 601767

Client Sample ID: MW-18  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	350		20.0	356	4	mg/L		18	75 - 125

# QC Sample Results

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

Job ID: 500-198952-1

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

Lab Sample ID: 500-198952-1 MSD  
 Matrix: Water  
 Analysis Batch: 601767

Client Sample ID: MW-18  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	350		20.0	362	4	mg/L		46	75 - 125	2	20

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# Lab Chronicle

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

Job ID: 500-198952-1

**Client Sample ID: MW-18**  
**Date Collected: 05/10/21 14:11**  
**Date Received: 05/11/21 14:55**

**Lab Sample ID: 500-198952-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:51	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	599734	05/18/21 13:48	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:08	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598492	05/13/21 06:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:43	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:12	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:09	ACG1	TAL CHI

**Client Sample ID: MW-19**  
**Date Collected: 05/10/21 15:16**  
**Date Received: 05/11/21 14:55**

**Lab Sample ID: 500-198952-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:55	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	599734	05/18/21 13:52	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:10	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598492	05/13/21 06:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	601771	06/01/21 15:44	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:15	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:02	ACG1	TAL CHI

**Client Sample ID: Duplicate**  
**Date Collected: 05/10/21 00:00**  
**Date Received: 05/11/21 14:55**

**Lab Sample ID: 500-198952-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:59	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:04	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598813	05/14/21 04:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:44	MS	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-198952-1

**Client Sample ID: Duplicate**  
**Date Collected: 05/10/21 00:00**  
**Date Received: 05/11/21 14:55**

**Lab Sample ID: 500-198952-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:11	ACG1	TAL CHI

**Client Sample ID: MW-08**  
**Date Collected: 05/11/21 15:41**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-198952-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 19:02	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:07	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:19	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598813	05/14/21 04:45	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:45	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:21	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:04	ACG1	TAL CHI

**Client Sample ID: MW-01**  
**Date Collected: 05/11/21 13:06**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-198952-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 19:06	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:11	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598813	05/14/21 04:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	601771	06/01/21 15:45	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601767	06/01/21 14:04	ACG1	TAL CHI

**Client Sample ID: MW-15**  
**Date Collected: 05/12/21 10:31**  
**Date Received: 05/13/21 13:40**

**Lab Sample ID: 500-198952-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 19:10	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:14	FXG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-198952-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-198952-6**

**Date Collected: 05/12/21 10:31**

**Matrix: Water**

**Date Received: 05/13/21 13:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599402	05/18/21 00:21	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:45	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:14	ACG1	TAL CHI

**Client Sample ID: MW-17**

**Lab Sample ID: 500-198952-7**

**Date Collected: 05/12/21 09:04**

**Matrix: Water**

**Date Received: 05/13/21 13:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 19:13	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:18	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:25	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599402	05/18/21 00:23	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:07	ACG1	TAL CHI

**Client Sample ID: MW-09**

**Lab Sample ID: 500-198952-8**

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

**Matrix: Water**

**Date Received: 05/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599943	05/19/21 17:20	JJB	TAL CHI
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599958	05/19/21 18:08	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:28	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599631	05/19/21 05:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	601771	06/01/21 15:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:34	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:08	ACG1	TAL CHI

# Lab Chronicle

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

Job ID: 500-198952-1

**Client Sample ID: MW-11**

**Lab Sample ID: 500-198952-9**

**Date Collected: 05/13/21 11:46**

**Matrix: Water**

**Date Received: 05/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599943	05/19/21 17:23	JJB	TAL CHI
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599958	05/19/21 18:11	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599631	05/19/21 05:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	601771	06/01/21 15:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:37	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:11	ACG1	TAL CHI

**Client Sample ID: MW-12**

**Lab Sample ID: 500-198952-10**

**Date Collected: 05/13/21 10:50**

**Matrix: Water**

**Date Received: 05/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599943	05/19/21 17:27	JJB	TAL CHI
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599958	05/19/21 18:15	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599631	05/19/21 05:32	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	601771	06/01/21 15:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:50	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:12	ACG1	TAL CHI

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-198952-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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**TestAmerica Chicago**

2417 Bond Street

**Chain of Custody Record**


**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

University Park IL 60484-3101  
phone 708 534 5200 fax 708 534 5211

Regulatory Program:  DW  NPDES  RCRA  Other

TestAmerica Laboratories, Inc.

<b>Client Contact</b> KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781 0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL P O # 4501908159		<b>Project Manager: Rich Gnat</b> Tel/Fax: (262) 781-0475		<b>Site Contact: Mitchel Dolan</b> Lab Contact: Diana Mockler		Date: <u>5/10/21</u> Carrier: FedEx		COC No _____ of _____ COCs Sampler _____ For Lab Use Only: Walk-in Client _____ Lab Sampling _____ Job / SDG No <u>500-198952</u>							
<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903 9 904.0 Radium 226/228 + Combined 6020A, 7470A - 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CL_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		 500-198952 COC		Sample Specific Notes									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 9 904.0 Radium 226/228 + Combined	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
1 MW-18	5/10	1411	G	W	70	N	N	X	X	X	X	X	X	X	
2 MW-19	5/10	1516	G	W	7										
3 Duplicate	5/10	-	G	W	7										
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____							4 4 4 1 1 1 1								
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-Hazardous <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 Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <u>3.4</u> Corr'd _____		Therm ID No _____									
Relinquished by <b>Mitchel Dolan</b> <i>M.D.</i>		Company <b>KPRG</b>		Date/Time <u>5/10/21 1700</u>		Received by <b>FedEx</b>		Company _____		Date/Time <u>5/10/21 1700</u>		Company _____		Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____		Company _____		Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Stephanie Hernandez</i>		Company <b>ETA-CHI</b>		Date/Time <u>5/11/21 1455</u>		Company _____		Date/Time _____	


Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018



University Park IL 60484-3101  
phone 708 534 5200 fax 708 534 5211

Regulatory Program:  DW  NPDES  RCRA  Other

TestAmerica Laboratories, Inc.

<b>Client Contact</b> KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL P O # 4501908159		<b>Project Manager Rich Gnat</b> Tel/Fax (262) 781-0475 <b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact: Mitchel Dolan</b> Date: 5/12/2021 <b>Lab Contact Diana Mockler</b> Carrier: FedEx COC No _____ of _____ COCs													
 500-198952 COC		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903 0 904 0 Radium 226/228 + Combine 6020A, 7470A 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_Cl_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		For Lab Use Only Walk-in Client Lab Sampling Job / SDG No. 500-198952 Sample Specific Notes													
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 0 904 0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes	
MW-15		5/12	10:31	G	W	7	N	N	X	X	X	X	X	X	X	X	
MW-17		↓	9:04	↓	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								4 4 4 1 1 1 1									
<b>Possible Hazard Identification</b> 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								<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
<b>Special Instructions/QC Requirements &amp; Comments - Lab Project #50011612.</b> CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No 1588766, 1588769, 1588768		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____											
Relinquished by Mitchel Dolan Manual Press		Company KPRG		Date/Time 5/12/16:00		Received by FedEx		Company _____		Date/Time 5/12/21 16:00							
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____							
Relinquished by _____		Company _____		Date/Time _____		Received by Laboratory _____		Company _____		Date/Time 5/13/21 13:40							









ORIGIN ID:PIAA (262) 622-1143  
MITCHEL DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 11MAY21  
ACTWGT: 56.85 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 1562974934/211/4/21/21/EXP 07/21

TO TEST AMERICA  
SAMPLE RECEIVING  
2417 BOND ST



UNIVERSITY PARK IL 60484

(708) 634-6200  
INV:  
PO:

REF:

DEPT:

500-198952 Wayt



FedEx  
Express



JN 0169012811Z

TRK# 7870 4749 5170  
0201

WED - 12 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484  
IL-US ORD





500-198952 Wayb

ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 12MAY21  
ACTWGT: 41.85 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

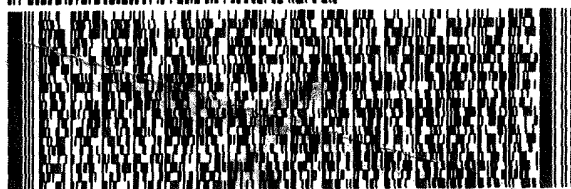
UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

THU:

DEPT:



FedEx  
Express



AN1016301261127

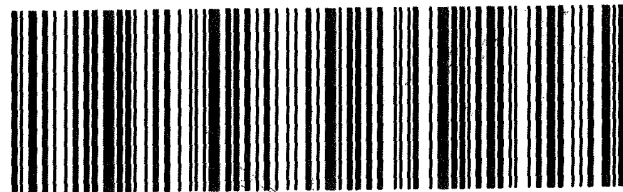
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0201

THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

AHS  
60484

IL-US ORD



ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 12MAY21  
ACTWGT: 61.90 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

651

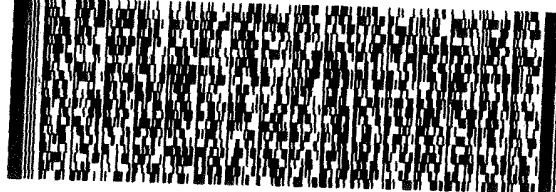
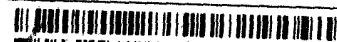
UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

THU:

DEPT:



FedEx  
Express



AN1016301261127

TRK# 7870 9102 8774  
0201

THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484

IL-US ORD



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8774  
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Part # 15029/2437 2437 2437 2437 Exp 07/21

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ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 12MAY21  
ACTWTG: 82.35 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 156297/338 7/14/21 12:55 PM EXP 07/21

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

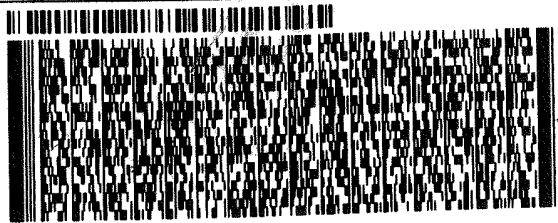
UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

THU:

DEPT:



FedEx  
Express



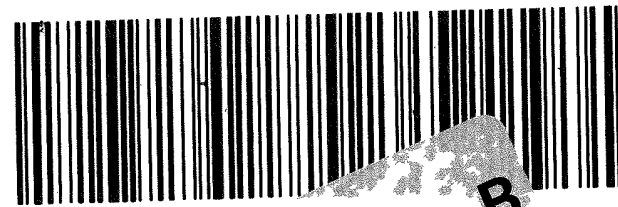
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THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484  
IL-US ORD



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ORD

B  
3186  
10-02



500-198952 Wayb

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13MAY21  
ACTWGT: 48.00 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4083 2/19/2021 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

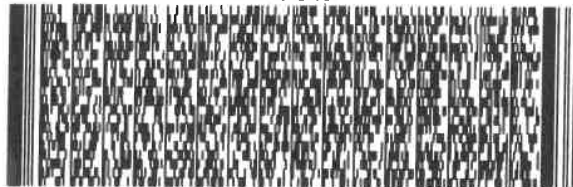
**UNIVERSITY PARK IL 60484**

(000) 000-0000

REF:

INVT

DEPT:



**FedEx**  
Express



AN 101E301281127

1 of 4

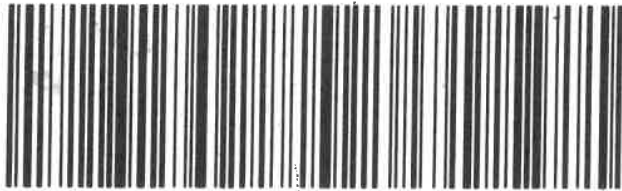
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## MASTER ##

**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**XH JOTA**

**60484**  
IL-US **ORD**



2062  
05.14

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13MAY21  
ACTWGT: 52.50 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4083 2/19/2021 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

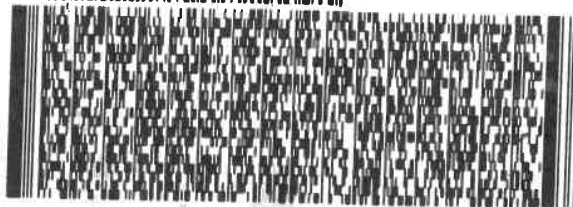
**UNIVERSITY PARK IL 60484**

(000) 000-0000

REF:

INVT

DEPT:



**FedEx**  
Express



AN 101E301281127

2 of 4

MP# **7871 3427 2062**

Mstr# 7871 3427 2051

0201

**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**XH JOTA**

**60484**  
IL-US **ORD**



RT 519 5 10:30 A  
ST 14 2084 05.14

ORIGIN ID:PIAA (000) 00

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

DIMS: 24x18x12 IN  
BILL THIRD PARTY

201

TO **SAMPLE RECEIVING  
EUROFINS TEST AMERICA  
2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000

REF:

DEPT:



**FRI - 14 MAY 10:30A  
PRIORITY OVERNIGHT**

MPS# 7871 3427 2084  
0263

Metr# 7871 3427 2051

0201

**XH JOTA**

60484

IL-US ORD



Part # 156295-4354-HAWAII-EXP 03/22

14 2073 05.14

ORIGIN ID:PIAA (000) 000-0090

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13 MAY  
ACTWT: 54.00 LB  
CAD: 6994779/68FE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

TO **SAMPLE RECEIVING  
EUROFINS TEST AMERICA  
2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000

REF:

DEPT:



**FRI - 14 MAY 10:30A  
PRIORITY OVERNIGHT**

MPS# 7871 3427 2073  
0263

Metr# 7871 3427 2051

0201

**XH JOTA**

60484

IL-US ORD



Part # 156295-4354-HAWAII-EXP 03/22

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-1

**Login Number: 198952**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

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	3.4,1.0,4.1,5.3,1.1,1.1,0.4,1.1,0.3
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	



## ANALYTICAL REPORT

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

Laboratory Job ID: 500-198952-2  
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:  
6/21/2021 8:14:12 AM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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



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# Case Narrative

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

Job ID: 500-198952-2

## Job ID: 500-198952-2

### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

#### Job Narrative 500-198952-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/11/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 0.3° C, 0.4° C, 1.0° C, 1.1° C, 1.1° C, 1.1° C, 3.4° C, 4.1° C and 5.3° C.

#### RAD

Methods 903.0, 9315: Radium 226 prep batch 160-510682

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-15 (500-198952-6), MW-17 (500-198952-7), MW-09 (500-198952-8), MW-11 (500-198952-9), MW-12 (500-198952-10), (LCS 160-510682/1-A), (MB 160-510682/25-A) and (500-198952-F-10-D DU)

Method 903.0: Radium-226 prep batch 160-510273:

The following sample has Ba carrier recovery (37.8%) outside the lower QC limit (40%). During the initial prep, some of the sample was lost due to prep error. The matrix spike recovery is within limits and the RER/RPD is within criteria. The data has been reported with this narrative. (160-42036-E-6-C MSD)

Method 903.0: Radium-226 prep batch 160-510273:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-18 (500-198952-1), MW-19 (500-198952-2), Duplicate (500-198952-3), MW-08 (500-198952-4), MW-01 (500-198952-5), (LCS 160-510273/1-A), (MB 160-510273/25-A), (160-42036-E-6-A), (160-42036-E-6-B MS) and (160-42036-E-6-C MSD)

Method 904.0: Radium-228 Batch 510281

The following sample had Barium recovery below the 40% QC limit: (160-42036-E-6-F MSD). The detection limit was achieved, so the laboratory does not believe this excursion adversely affects the data. Therefore, the data have been reported with this narrative.

Method 904.0: Radium-228 Batch 510281

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-18 (500-198952-1), MW-19 (500-198952-2), Duplicate (500-198952-3), MW-08 (500-198952-4), MW-01 (500-198952-5), (LCS 160-510281/1-A), (MB 160-510281/25-A), (160-42036-E-6-D), (160-42036-E-6-E MS) and (160-42036-E-6-F MSD)

Method 904.0:

Methods 904.0, 9320: Radium-228 prep batch 160-510691:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-15 (500-198952-6), MW-17 (500-198952-7), MW-09 (500-198952-8), MW-11 (500-198952-9), MW-12 (500-198952-10), (LCS 160-510691/1-A), (MB 160-510691/25-A) and (500-198952-F-10-C DU)

# Case Narrative

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

Job ID: 500-198952-2

---

## Job ID: 500-198952-2 (Continued)

---

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

Method PrecSep\_0: Ra-228 Batch 160-510691:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-15 (500-198952-6), MW-17 (500-198952-7), MW-11 (500-198952-9) and MW-12 (500-198952-10). This is an indicator of matrix interference.

Method PrecSep-21: Ra-226 Batch 160-510682:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-15 (500-198952-6), MW-17 (500-198952-7), MW-11 (500-198952-9) and MW-12 (500-198952-10). This is an indicator of matrix interference.

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: Powerton CCR

Job ID: 500-198952-2

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: Powerton CCR

Job ID: 500-198952-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198952-1	MW-18	Water	05/10/21 14:11	05/11/21 14:55	
500-198952-2	MW-19	Water	05/10/21 15:16	05/11/21 14:55	
500-198952-3	Duplicate	Water	05/10/21 00:00	05/11/21 14:55	
500-198952-4	MW-08	Water	05/11/21 15:41	05/12/21 14:55	
500-198952-5	MW-01	Water	05/11/21 13:06	05/12/21 14:55	
500-198952-6	MW-15	Water	05/12/21 10:31	05/13/21 13:40	
500-198952-7	MW-17	Water	05/12/21 09:04	05/13/21 13:40	
500-198952-8	MW-09	Water	05/13/21 13:00	05/14/21 09:25	
500-198952-9	MW-11	Water	05/13/21 11:46	05/14/21 09:25	
500-198952-10	MW-12	Water	05/13/21 10:50	05/14/21 09:25	

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-18**  
Date Collected: 05/10/21 14:11  
Date Received: 05/11/21 14:55

**Lab Sample ID: 500-198952-1**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.249		0.141	0.143	1.00	0.193	pCi/L	05/18/21 10:13	06/15/21 07:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.1		40 - 110					05/18/21 10:13	06/15/21 07:13	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	0.0382	U	0.304	0.304	1.00	0.544	pCi/L	05/18/21 11:20	06/09/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.1		40 - 110					05/18/21 11:20	06/09/21 10:51	1
Y Carrier	84.5		40 - 110					05/18/21 11:20	06/09/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.287	U	0.335	0.336	5.00	0.544	pCi/L		06/18/21 16:23	1

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-19**  
Date Collected: 05/10/21 15:16  
Date Received: 05/11/21 14:55

**Lab Sample ID: 500-198952-2**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0389	U	0.0853	0.0853	1.00	0.182	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					05/18/21 10:13	06/15/21 07:14	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	0.467	U	0.335	0.338	1.00	0.524	pCi/L	05/18/21 11:20	06/09/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					05/18/21 11:20	06/09/21 10:51	1
Y Carrier	84.9		40 - 110					05/18/21 11:20	06/09/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.428	U	0.346	0.349	5.00	0.524	pCi/L		06/18/21 16:23	1

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: Duplicate**  
Date Collected: 05/10/21 00:00  
Date Received: 05/11/21 14:55

**Lab Sample ID: 500-198952-3**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124	U	0.107	0.108	1.00	0.165	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					05/18/21 10:13	06/15/21 07:14	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	0.160	U	0.369	0.370	1.00	0.631	pCi/L	05/18/21 11:20	06/09/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					05/18/21 11:20	06/09/21 10:51	1
Y Carrier	84.5		40 - 110					05/18/21 11:20	06/09/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.284	U	0.384	0.385	5.00	0.631	pCi/L		06/18/21 16:23	1

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-08**

**Lab Sample ID: 500-198952-4**

Date Collected: 05/11/21 15:41

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179	U	0.128	0.129	1.00	0.186	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		40 - 110					05/18/21 10:13	06/15/21 07:14	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	0.188	U	0.407	0.408	1.00	0.695	pCi/L	05/18/21 11:20	06/09/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		40 - 110					05/18/21 11:20	06/09/21 10:51	1
Y Carrier	83.0		40 - 110					05/18/21 11:20	06/09/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.367	U	0.427	0.428	5.00	0.695	pCi/L		06/18/21 16:23	1

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-01**  
**Date Collected: 05/11/21 13:06**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-198952-5**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0274	U	0.0702	0.0702	1.00	0.153	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					05/18/21 10:13	06/15/21 07:14	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	0.319	U	0.322	0.323	1.00	0.523	pCi/L	05/18/21 11:20	06/09/21 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					05/18/21 11:20	06/09/21 10:52	1
Y Carrier	87.1		40 - 110					05/18/21 11:20	06/09/21 10:52	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	0.291	U	0.330	0.331	5.00	0.523	pCi/L		06/18/21 16:23	1

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-15**

**Lab Sample ID: 500-198952-6**

Date Collected: 05/12/21 10:31

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.210	U	0.176	0.177	1.00	0.265	pCi/L	05/20/21 13:58	06/14/21 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.9		40 - 110					05/20/21 13:58	06/14/21 07:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0788	U	0.369	0.369	1.00	0.648	pCi/L	05/20/21 15:09	06/11/21 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.9		40 - 110					05/20/21 15:09	06/11/21 13:54	1
Y Carrier	89.0		40 - 110					05/20/21 15:09	06/11/21 13:54	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	0.288	U	0.409	0.409	5.00	0.648	pCi/L		06/18/21 16:23	1



# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-17**

**Lab Sample ID: 500-198952-7**

Date Collected: 05/12/21 09:04

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178	U	0.136	0.137	1.00	0.198	pCi/L	05/20/21 13:58	06/14/21 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					05/20/21 13:58	06/14/21 07:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.262	U	0.291	0.292	1.00	0.478	pCi/L	05/20/21 15:09	06/11/21 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					05/20/21 15:09	06/11/21 13:54	1
Y Carrier	87.5		40 - 110					05/20/21 15:09	06/11/21 13:54	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	0.440	U	0.321	0.323	5.00	0.478	pCi/L		06/18/21 16:23	1

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-09**

**Lab Sample ID: 500-198952-8**

Date Collected: 05/13/21 13:00

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108	U	0.150	0.150	1.00	0.253	pCi/L	05/20/21 13:58	06/14/21 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.3		40 - 110					05/20/21 13:58	06/14/21 07:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.412	U	0.379	0.381	1.00	0.612	pCi/L	05/20/21 15:09	06/11/21 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.3		40 - 110					05/20/21 15:09	06/11/21 13:54	1
Y Carrier	89.3		40 - 110					05/20/21 15:09	06/11/21 13:54	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	0.520	U	0.408	0.409	5.00	0.612	pCi/L		06/18/21 16:23	1

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-11**

**Lab Sample ID: 500-198952-9**

Date Collected: 05/13/21 11:46

Matrix: Water

Date Received: 05/14/21 09:25

**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>0.520</b>		0.199	0.204	1.00	0.226	pCi/L	05/20/21 13:58	06/14/21 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					05/20/21 13:58	06/14/21 07:51	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>1.07</b>		0.340	0.354	1.00	0.436	pCi/L	05/20/21 15:09	06/11/21 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					05/20/21 15:09	06/11/21 13:55	1
Y Carrier	87.5		40 - 110					05/20/21 15:09	06/11/21 13:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.59</b>		0.394	0.409	5.00	0.436	pCi/L		06/18/21 16:23	1

# Client Sample Results

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

Job ID: 500-198952-2

**Client Sample ID: MW-12**  
Date Collected: 05/13/21 10:50  
Date Received: 05/14/21 09:25

**Lab Sample ID: 500-198952-10**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0849	U	0.126	0.126	1.00	0.214	pCi/L	05/20/21 13:58	06/14/21 18:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					05/20/21 13:58	06/14/21 18:27	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	0.478		0.304	0.307	1.00	0.461	pCi/L	05/20/21 15:09	06/11/21 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					05/20/21 15:09	06/11/21 13:55	1
Y Carrier	86.0		40 - 110					05/20/21 15:09	06/11/21 13:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.563		0.329	0.332	5.00	0.461	pCi/L		06/18/21 16:23	1

# Definitions/Glossary

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

Job ID: 500-198952-2

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-198952-2

## Rad

### Prep Batch: 510273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	PrecSep-21	
500-198952-2	MW-19	Total/NA	Water	PrecSep-21	
500-198952-3	Duplicate	Total/NA	Water	PrecSep-21	
500-198952-4	MW-08	Total/NA	Water	PrecSep-21	
500-198952-5	MW-01	Total/NA	Water	PrecSep-21	
MB 160-510273/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-510273/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 510281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	PrecSep_0	
500-198952-2	MW-19	Total/NA	Water	PrecSep_0	
500-198952-3	Duplicate	Total/NA	Water	PrecSep_0	
500-198952-4	MW-08	Total/NA	Water	PrecSep_0	
500-198952-5	MW-01	Total/NA	Water	PrecSep_0	
MB 160-510281/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-510281/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

### Prep Batch: 510682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-6	MW-15	Total/NA	Water	PrecSep-21	
500-198952-7	MW-17	Total/NA	Water	PrecSep-21	
500-198952-8	MW-09	Total/NA	Water	PrecSep-21	
500-198952-9	MW-11	Total/NA	Water	PrecSep-21	
500-198952-10	MW-12	Total/NA	Water	PrecSep-21	
MB 160-510682/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-510682/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-198952-10 DU	MW-12	Total/NA	Water	PrecSep-21	

### Prep Batch: 510691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-6	MW-15	Total/NA	Water	PrecSep_0	
500-198952-7	MW-17	Total/NA	Water	PrecSep_0	
500-198952-8	MW-09	Total/NA	Water	PrecSep_0	
500-198952-9	MW-11	Total/NA	Water	PrecSep_0	
500-198952-10	MW-12	Total/NA	Water	PrecSep_0	
MB 160-510691/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-510691/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-198952-10 DU	MW-12	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-198952-2

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

**Lab Sample ID: MB 160-510273/25-A**  
**Matrix: Water**  
**Analysis Batch: 514366**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 510273**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1499		0.101	0.102	1.00	0.143	pCi/L	05/18/21 10:13	06/15/21 10:27	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	81.1				05/18/21 10:13	06/15/21 10:27	1			

**Lab Sample ID: LCS 160-510273/1-A**  
**Matrix: Water**  
**Analysis Batch: 514296**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 510273**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.49		1.13	1.00	0.153	pCi/L	92	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
	82.6								

**Lab Sample ID: MB 160-510682/25-A**  
**Matrix: Water**  
**Analysis Batch: 514232**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 510682**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1240	U	0.107	0.108	1.00	0.161	pCi/L	05/20/21 14:49	06/14/21 18:27	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	83.5				05/20/21 14:49	06/14/21 18:27	1			

**Lab Sample ID: LCS 160-510682/1-A**  
**Matrix: Water**  
**Analysis Batch: 514248**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 510682**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.65		1.36	1.00	0.240	pCi/L	103	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
	59.8								

**Lab Sample ID: 500-198952-10 DU**  
**Matrix: Water**  
**Analysis Batch: 514248**

**Client Sample ID: MW-12**  
**Prep Type: Total/NA**  
**Prep Batch: 510682**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0849	U	0.2190	U	0.164	1.00	0.241	pCi/L	0.46	1

Euofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-198952-2

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

**Lab Sample ID: 500-198952-10 DU**  
**Matrix: Water**  
**Analysis Batch: 514248**

**Client Sample ID: MW-12**  
**Prep Type: Total/NA**  
**Prep Batch: 510682**

Carrier	<i>DU</i> %Yield	<i>DU</i> Qualifier	Limits
Ba Carrier	75.4		40 - 110

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

**Lab Sample ID: MB 160-510281/25-A**  
**Matrix: Water**  
**Analysis Batch: 513485**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 510281**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2666	U	0.291	0.292	1.00	0.476	pCi/L	05/18/21 11:20	06/09/21 11:21	1
Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits			Prepared		Analyzed	Dil Fac	
Ba Carrier	81.1		40 - 110			05/18/21 11:20		06/09/21 11:21	1	
Y Carrier	89.0		40 - 110			05/18/21 11:20		06/09/21 11:21	1	

**Lab Sample ID: LCS 160-510281/1-A**  
**Matrix: Water**  
**Analysis Batch: 513446**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 510281**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Radium-228	9.64	9.783		1.20	1.00	0.540	pCi/L	101	75 - 125
Carrier	<i>LCS</i> %Yield	<i>LCS</i> Qualifier	Limits						
Ba Carrier	82.6		40 - 110						
Y Carrier	86.0		40 - 110						

**Lab Sample ID: MB 160-510691/25-A**  
**Matrix: Water**  
**Analysis Batch: 513948**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 510691**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.05076	U	0.300	0.300	1.00	0.527	pCi/L	05/20/21 15:09	06/11/21 14:05	1
Carrier	<i>MB</i> %Yield	<i>MB</i> Qualifier	Limits			Prepared		Analyzed	Dil Fac	
Ba Carrier	83.5		40 - 110			05/20/21 15:09		06/11/21 14:05	1	
Y Carrier	87.1		40 - 110			05/20/21 15:09		06/11/21 14:05	1	

**Lab Sample ID: LCS 160-510691/1-A**  
**Matrix: Water**  
**Analysis Batch: 513943**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 510691**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Radium-228	9.64	10.87		1.36	1.00	0.606	pCi/L	113	75 - 125

Eurofins TestAmerica, Chicago



# QC Sample Results

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

Job ID: 500-198952-2

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

**Lab Sample ID: LCS 160-510691/1-A**  
**Matrix: Water**  
**Analysis Batch: 513943**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 510691**

Carrier	LCS	LCS	Limits
	%Yield	Qualifier	
Ba Carrier	59.8		40 - 110
Y Carrier	90.8		40 - 110

**Lab Sample ID: 500-198952-10 DU**  
**Matrix: Water**  
**Analysis Batch: 513943**

**Client Sample ID: MW-12**  
**Prep Type: Total/NA**  
**Prep Batch: 510691**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-228	0.478		0.4233	U	0.305	1.00	0.470	pCi/L	0.09	1

Carrier	DU	DU	Limits
	%Yield	Qualifier	
Ba Carrier	75.4		40 - 110
Y Carrier	86.0		40 - 110

**TestAmerica Chicago**

2417 Bond Street

**Chain of Custody Record**


**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

University Park IL 60484-3101  
phone 708 534 5200 fax 708 534 5211

Regulatory Program:  DW  NPDES  RCRA  Other

TestAmerica Laboratories, Inc.

<b>Client Contact</b> KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781 0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL P O # 4501908159		<b>Project Manager: Rich Gnat</b> Tel/Fax: (262) 781-0475		<b>Site Contact: Mitchel Dolan</b> Lab Contact: Diana Mockler		Date: <u>5/10/21</u> Carrier: FedEx		COC No _____ _____ of _____ COCs									
<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903 9 904.0 Radium 226/228 + Combined 6020A, 7470A - 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CLE - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		 500-198952 COC		<b>For Lab Use Only:</b> Walk-in Client _____ Lab Sampling _____ Job / SDG No <u>500-198952</u>		Sample Specific Notes									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 9 904.0 Radium 226/228 + Combined	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CLE - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes		
1 MW-18	5/10	1411	G	W	70	N	N	X	X	X	X	X	X	X			
2 MW-19	5/10	1516	G	W	7												
3 Duplicate	5/10	-	G	W	7												
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____							4 4 4 1 1 1 1										
<b>Possible Hazard Identification</b> 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-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months										
<b>Special Instructions/QC Requirements &amp; Comments Lab Project #50011612.</b> CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No _____			Cooler Temp (°C) Obs'd <u>3.4</u> Corr'd _____			Therm ID No _____								
Relinquished by <b>Mitchel Dolan</b> <i>M.D.</i>			Company <b>KPRG</b>			Date/Time <u>5/10/21/1700</u>			Received by <b>FedEx</b>			Company _____			Date/Time <u>5/10/21 / 1700</u>		
Relinquished by _____			Company _____			Date/Time _____			Received by _____			Company _____			Date/Time _____		
Relinquished by _____			Company _____			Date/Time _____			Received in Laboratory by <i>Stephanie Hernandez</i>			Company <b>ETA-CHI</b>			Date/Time <u>5/11/21 1455</u>		

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

TestAmerica Chicago

2417 Bond Street

University Park IL 60484-3101  
phone 708 534 5200 fax 708 534 5211



500-198952 COC

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b>		<b>Project Manager: Rich Gnat</b>		<b>Site Contact: Mitchel Dolan</b>		<b>Date: 5/11/21</b>		<b>COC No</b>	
KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154		Tel/Fax (262) 781-0475		Lab Contact Diana Mockler		Carrier: FedEx		_____ of _____ COCs	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		TAT if different from Below _____		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sampler	
<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				903 0 904 0 Radium 226/228 + Combine		6020A, 7470A - 14 Metals & Mercury		For Lab Use Only: Walk-in Client _____ Lab Sampling _____ Job / SDG No. 500-198952	
Project Name Powerton CCR Quarterly		Site Powerton Station - Pekin IL		P O # 4501908159				Sample Specific Notes	

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Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 0 904 0 Radium 226/228 + Combine	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SMA4500_Cl_E - Chloride	SMA4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
MW-08	5/11/21	1541	G	W	7	N	N	X	X	X	X	X	X		
MW-01	5/11/21	1306	G	W	7			X	X	X	X	X	X		

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

Non Hazard  Flammable  Skin Irritant  Poison B  Unknown

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Special Instructions/QC Requirements & Comments Lab Project #50011612.  
CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium

Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No _____	Cooler Temp (°C) Obs'd <u>10</u> Corr'd _____	Therm ID No _____
Relinquished by Mitchel Dolan <u>MD</u>	Company KPRG	Date/Time 5/11/21/1700	Received by FedEx
Relinquished by _____	Company _____	Date/Time _____	Received by _____
Relinquished by _____	Company _____	Date/Time _____	Received by Laboratory <u>John Scott</u> Company <u>EPA-CHE</u> Date/Time 5/12/21 1455

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

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University Park IL 60484-3101  
phone 708 534 5200 fax 708 534 5211

Regulatory Program:  DW  NPDES  RCRA  Other

TestAmerica Laboratories, Inc.

<b>Client Contact</b> KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL P O # 4501908159		<b>Project Manager Rich Gnat</b> Tel/Fax (262) 781-0475 <b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Site Contact: Mitchel Dolan</b> Date: 5/12/2021 <b>Lab Contact Diana Mockler</b> Carrier: FedEx		COC No _____ of _____ COCs Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No. 500-198952										
<b>Sample Identification</b>		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 0 904 0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
MW-15		5/12	10:31	G	W	7	N	N	X	X	X	X	X	X	X	X
MW-17		↓	9:04	↓	↓	↓	↓	↓	X	X	X	X	X	X	X	X
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									4	4	4	1	1	1	1	
<b>Possible Hazard Identification</b> 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									<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
<b>Special Instructions/QC Requirements &amp; Comments: Lab Project #50011612.</b> CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No 1588766, 1588769, 1588768			Cooler Temp (°C) Obs'd _____ Corr'd _____			Therm ID No _____								
Relinquished by Mitchel Dolan Manual Press		Company KPRG		Date/Time 5/12/16:00		Received by FedEx		Company _____		Date/Time 5/12/21 16:00						
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____						
Relinquished by _____		Company _____		Date/Time _____		Received by Laboratory _____		Company _____		Date/Time 5/13/21 13:40						









ORIGIN ID:PIAA (262) 622-1143  
MITCHEL DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 11MAY21  
ACTWGT: 56.85 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 1562974934/211/4/21/21  
EXP 07/21

TO TEST AMERICA  
SAMPLE RECEIVING  
2417 BOND ST



UNIVERSITY PARK IL 60484

(708) 634-6200  
INV:  
PO:

REF:

DEPT:

500-198952 Wayt



FedEx  
Express



JAN 01 6901 2811 27

TRK# 7870 4749 5170  
0201

WED - 12 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484  
IL-US ORD







500-198952 Wayb

ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 12MAY21  
ACTWGT: 41.85 LB  
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DIMS: 23x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

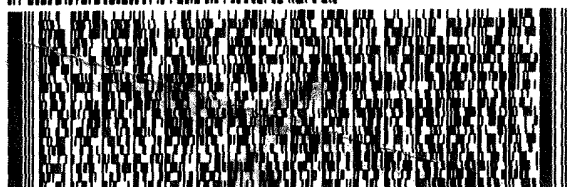
UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

THU:

DEPT:



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Express



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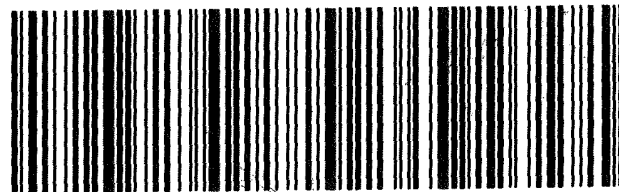
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STANDARD OVERNIGHT

TRK# 7870 9114 7614  
0201

UF JOTA

AHS  
60484

IL-US ORD



ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 12MAY21  
ACTWGT: 61.90 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

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UNIVERSITY PARK IL 60484

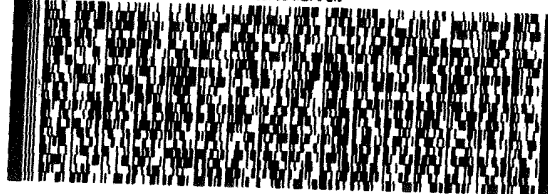
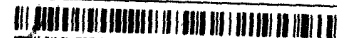
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REF:

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DEPT:



FedEx  
Express



AN1016301261L2F

TRK# 7870 9102 8774  
0201

THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

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10-02

Part # 15029/7337 2/15/21 Exp 07/21

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ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 12MAY21  
ACTWGT: 82.35 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 156297/338  
EXP 07/21

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

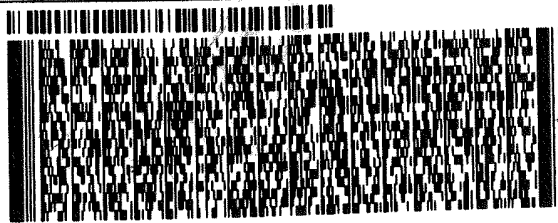
UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

THU:

DEPT:



FedEx  
Express



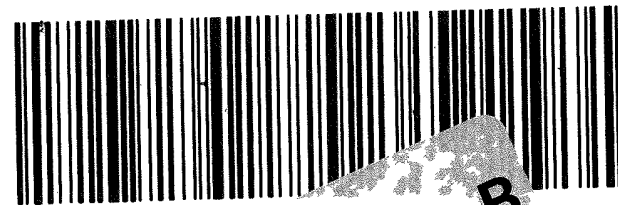
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TRK# 7870 9119 3186  
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THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484  
IL-US ORD



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ORD

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3186  
10-02



500-198952 Wayb

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13MAY21  
ACTWGT: 48.00 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

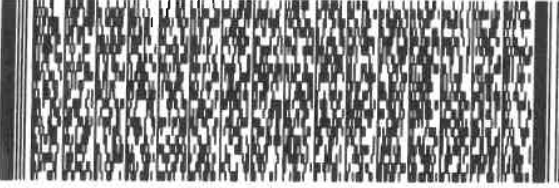
BILL THIRD PARTY

Part # 156295-4083 2/19/2021 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000 REF: DEPT:  
INVT: PO:



1 of 4  
TRK# **7871 3427 2051**  
## MASTER ##

**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**XH JOTA**

**60484**  
IL-US **ORD**



2062  
05.14

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13MAY21  
ACTWGT: 52.50 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4083 2/19/2021 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000 REF: DEPT:  
INVT: PO:



2 of 4  
MP# **7871 3427 2062**  
Mstr# 7871 3427 2051

**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**XH JOTA**

**60484**  
IL-US **ORD**



RT 519 5 10:30 A  
2084  
ST 14 05.14

ORIGIN ID:PIAA (000) 00

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

DIMS: 24x18x12 IN  
BILL THIRD PARTY

201

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000

REF:

DEPT:



**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

4 of 4  
MPS# 7871 3427 2084  
Metr# 7871 3427 2051

0201

**XH JOTA**

**60484**  
IL-US ORD



Part # 156295-4354-HAWAII-EXP 03/22

14 2073 05.14

ORIGIN ID:PIAA (000) 000-0090

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13 MAY  
ACTWT: 54.00 LB  
CAD: 6994779/65FE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000

REF:

DEPT:



**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

3 of 4  
MPS# 7871 3427 2073  
Metr# 7871 3427 2051

0201

**XH JOTA**

**60484**  
IL-US ORD



Part # 156295-4354-HAWAII-EXP 03/22





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-2

**Login Number: 198952**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

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	3.4,1.0,4.1,5.3,1.1,1.1,0.4,1.1,0.3
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: 500-198952-2

**Login Number: 198952**

**List Number: 2**

**Creator: Worthington, Sierra M**

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

**List Creation: 05/12/21 12:17 PM**

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

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-2

**Login Number: 198952**

**List Number: 3**

**Creator: Worthington, Sierra M**

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

**List Creation: 05/13/21 11:16 AM**

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





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-2

**Login Number: 198952**

**List Number: 4**

**Creator: Worthington, Sierra M**

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

**List Creation: 05/14/21 03:30 PM**

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



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-2

**Login Number: 198952**

**List Number: 5**

**Creator: Mazariegos, Leonel A**

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

**List Creation: 05/15/21 01:38 PM**

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



# Lab Chronicle

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

Job ID: 500-198952-2

**Client Sample ID: MW-18**  
**Date Collected: 05/10/21 14:11**  
**Date Received: 05/11/21 14:55**

**Lab Sample ID: 500-198952-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:13	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

**Client Sample ID: MW-19**  
**Date Collected: 05/10/21 15:16**  
**Date Received: 05/11/21 14:55**

**Lab Sample ID: 500-198952-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

**Client Sample ID: Duplicate**  
**Date Collected: 05/10/21 00:00**  
**Date Received: 05/11/21 14:55**

**Lab Sample ID: 500-198952-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

**Client Sample ID: MW-08**  
**Date Collected: 05/11/21 15:41**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-198952-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

# Lab Chronicle

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

Job ID: 500-198952-2

## Client Sample ID: MW-01

Date Collected: 05/11/21 13:06

Date Received: 05/12/21 14:55

Lab Sample ID: 500-198952-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

## Client Sample ID: MW-15

Date Collected: 05/12/21 10:31

Date Received: 05/13/21 13:40

Lab Sample ID: 500-198952-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514248	06/14/21 07:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:54	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

## Client Sample ID: MW-17

Date Collected: 05/12/21 09:04

Date Received: 05/13/21 13:40

Lab Sample ID: 500-198952-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514248	06/14/21 07:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:54	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

## Client Sample ID: MW-09

Date Collected: 05/13/21 13:00

Date Received: 05/14/21 09:25

Lab Sample ID: 500-198952-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514248	06/14/21 07:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:54	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

# Lab Chronicle

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

Job ID: 500-198952-2

**Client Sample ID: MW-11**

**Lab Sample ID: 500-198952-9**

**Date Collected: 05/13/21 11:46**

**Matrix: Water**

**Date Received: 05/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514248	06/14/21 07:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:55	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

**Client Sample ID: MW-12**

**Lab Sample ID: 500-198952-10**

**Date Collected: 05/13/21 10:50**

**Matrix: Water**

**Date Received: 05/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514232	06/14/21 18:27	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:55	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-198952-2

## Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

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# Tracer/Carrier Summary

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

Job ID: 500-198952-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-198952-1	MW-18	66.1	
500-198952-2	MW-19	77.8	
500-198952-3	Duplicate	78.4	
500-198952-4	MW-08	67.0	
500-198952-5	MW-01	82.0	
500-198952-6	MW-15	58.9	
500-198952-7	MW-17	80.8	
500-198952-8	MW-09	64.3	
500-198952-9	MW-11	79.3	
500-198952-10	MW-12	75.1	
500-198952-10 DU	MW-12	75.4	
LCS 160-510273/1-A	Lab Control Sample	82.6	
LCS 160-510682/1-A	Lab Control Sample	59.8	
MB 160-510273/25-A	Method Blank	81.1	
MB 160-510682/25-A	Method Blank	83.5	
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-198952-1	MW-18	66.1	84.5
500-198952-2	MW-19	77.8	84.9
500-198952-3	Duplicate	78.4	84.5
500-198952-4	MW-08	67.0	83.0
500-198952-5	MW-01	82.0	87.1
500-198952-6	MW-15	58.9	89.0
500-198952-7	MW-17	80.8	87.5
500-198952-8	MW-09	64.3	89.3
500-198952-9	MW-11	79.3	87.5
500-198952-10	MW-12	75.1	86.0
500-198952-10 DU	MW-12	75.4	86.0
LCS 160-510281/1-A	Lab Control Sample	82.6	86.0
LCS 160-510691/1-A	Lab Control Sample	59.8	90.8
MB 160-510281/25-A	Method Blank	81.1	89.0
MB 160-510691/25-A	Method Blank	83.5	87.1
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-199030-1  
Client Project/Site: Powerton CCR  
Revision: 1

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

Attn: Richard Gnat



Authorized for release by:  
6/25/2021 8:31:42 AM

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

### LINKS

Review your project  
results through  
**TotalAccess**

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

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

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





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# Case Narrative

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

Job ID: 500-199030-1

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**Job ID: 500-199030-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

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**Job Narrative  
500-199030-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/12/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5° C and 0.7° C.

**Metals**

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

**General Chemistry**

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

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# Method Summary

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

Job ID: 500-199030-1

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

#### Protocol References:

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

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 500-199030-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-199030-1	MW-01	Water	05/11/21 13:06	05/12/21 14:55	
500-199030-2	MW-02	Water	05/11/21 12:06	05/12/21 14:55	
500-199030-3	MW-03	Water	05/11/21 11:07	05/12/21 14:55	
500-199030-4	MW-04	Water	05/11/21 10:09	05/12/21 14:55	
500-199030-5	MW-05	Water	05/11/21 09:06	05/12/21 14:55	
500-199030-6	MW-10	Water	05/11/21 14:27	05/12/21 14:55	
500-199030-7	FAB Duplicate	Water	05/11/21 00:00	05/12/21 14:55	

# Client Sample Results

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

Job ID: 500-199030-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-199030-1**

Date Collected: 05/11/21 13:06

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 16:48	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:48	1
<b>Barium</b>	<b>0.043</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 16:48	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:48	1
<b>Boron</b>	<b>0.21</b>		0.050		mg/L		05/14/21 08:28	05/18/21 12:46	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:48	1
<b>Calcium</b>	<b>85</b>		0.20		mg/L		05/14/21 08:28	05/17/21 16:48	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:48	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:48	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:48	1
<b>Molybdenum</b>	<b>0.010</b>		0.0050		mg/L		05/14/21 08:28	05/17/21 16:48	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:48	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>450</b>		10		mg/L			05/14/21 05:58	1
<b>Chloride</b>	<b>51</b>		4.0		mg/L			05/27/21 12:57	2
<b>Fluoride</b>	<b>0.21</b>		0.10		mg/L			05/27/21 07:33	1
<b>Sulfate</b>	<b>37</b>		10		mg/L			05/27/21 12:23	2

# Client Sample Results

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

Job ID: 500-199030-1

**Client Sample ID: MW-02**  
**Date Collected: 05/11/21 12:06**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:06	1
<b>Arsenic</b>	<b>0.0015</b>		0.0010		mg/L		05/14/21 08:28	05/17/21 17:06	1
<b>Barium</b>	<b>0.057</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:06	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:06	1
<b>Boron</b>	<b>0.23</b>		0.050		mg/L		05/14/21 08:28	05/18/21 13:03	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:06	1
<b>Calcium</b>	<b>79</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:06	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:06	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:06	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:06	1
<b>Molybdenum</b>	<b>0.0095</b>		0.0050		mg/L		05/14/21 08:28	05/17/21 17:06	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:06	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>370</b>		10		mg/L			05/14/21 06:01	1
<b>Chloride</b>	<b>51</b>		4.0		mg/L			05/27/21 12:57	2
<b>Fluoride</b>	<b>0.21</b>		0.10		mg/L			05/27/21 07:43	1
<b>Sulfate</b>	<b>37</b>		10		mg/L			05/27/21 12:26	2

# Client Sample Results

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

Job ID: 500-199030-1

**Client Sample ID: MW-03**  
**Date Collected: 05/11/21 11:07**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-3**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:09	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:09	1
<b>Barium</b>	<b>0.070</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:09	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:09	1
<b>Boron</b>	<b>0.22</b>		0.050		mg/L		05/14/21 08:28	05/18/21 13:07	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:09	1
<b>Calcium</b>	<b>75</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:09	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:09	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:09	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:09	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:09	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:09	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:09	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>390</b>		10		mg/L			05/14/21 06:03	1
<b>Chloride</b>	<b>49</b>		4.0		mg/L			05/27/21 12:30	2
<b>Fluoride</b>	<b>0.21</b>		0.10		mg/L			05/27/21 07:46	1
<b>Sulfate</b>	<b>38</b>		10		mg/L			05/27/21 12:27	2

# Client Sample Results

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

Job ID: 500-199030-1

**Client Sample ID: MW-04**  
**Date Collected: 05/11/21 10:09**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:12	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:12	1
<b>Barium</b>	<b>0.025</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:12	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:12	1
<b>Boron</b>	<b>0.61</b>		0.10		mg/L		05/14/21 08:28	05/18/21 13:10	2
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:12	1
<b>Calcium</b>	<b>77</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:12	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:12	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:12	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:12	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:12	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:12	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:12	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>410</b>		10		mg/L			05/14/21 06:06	1
<b>Chloride</b>	<b>44</b>		4.0		mg/L			05/27/21 12:30	2
<b>Fluoride</b>	<b>0.33</b>		0.10		mg/L			05/27/21 07:49	1
<b>Sulfate</b>	<b>76</b>		10		mg/L			05/27/21 12:27	2



# Client Sample Results

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

Job ID: 500-199030-1

**Client Sample ID: MW-05**  
**Date Collected: 05/11/21 09:06**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-5**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:23	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:23	1
<b>Barium</b>	<b>0.040</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:23	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:23	1
<b>Boron</b>	<b>0.50</b>		0.050		mg/L		05/14/21 08:28	05/18/21 13:20	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:23	1
<b>Calcium</b>	<b>83</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:23	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:23	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:23	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:23	1
<b>Molybdenum</b>	<b>0.0062</b>		0.0050		mg/L		05/14/21 08:28	05/17/21 17:23	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:23	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:23	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>530</b>		10		mg/L			05/14/21 06:09	1
<b>Chloride</b>	<b>52</b>		4.0		mg/L			05/27/21 12:31	2
<b>Fluoride</b>	<b>0.38</b>		0.10		mg/L			05/27/21 07:52	1
<b>Sulfate</b>	<b>100</b>		25		mg/L			05/27/21 12:33	5

# Client Sample Results

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

Job ID: 500-199030-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-199030-6**

Date Collected: 05/11/21 14:27

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:26	1
<b>Arsenic</b>	<b>0.0011</b>		0.0010		mg/L		05/14/21 08:28	05/17/21 17:26	1
<b>Barium</b>	<b>0.26</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:26	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:26	1
<b>Boron</b>	<b>0.64</b>		0.10		mg/L		05/14/21 08:28	05/18/21 13:24	2
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:26	1
<b>Calcium</b>	<b>100</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:26	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:26	1
<b>Cobalt</b>	<b>0.0080</b>		0.0010		mg/L		05/14/21 08:28	05/17/21 17:26	1
<b>Lead</b>	<b>0.00085</b>		0.00050		mg/L		05/14/21 08:28	05/17/21 17:26	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:26	1
<b>Selenium</b>	<b>0.0049</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:26	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:26	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>540</b>		10		mg/L			05/14/21 06:11	1
<b>Chloride</b>	<b>52</b>		4.0		mg/L			05/27/21 12:31	2
<b>Fluoride</b>	<b>0.24</b>		0.10		mg/L			05/27/21 07:56	1
<b>Sulfate</b>	<b>59</b>		10		mg/L			05/27/21 12:33	2

# Client Sample Results

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

Job ID: 500-199030-1

**Client Sample ID: FAB Duplicate**

**Lab Sample ID: 500-199030-7**

Date Collected: 05/11/21 00:00

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:30	1
<b>Arsenic</b>	<b>0.0014</b>		0.0010		mg/L		05/14/21 08:28	05/17/21 17:30	1
<b>Barium</b>	<b>0.27</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:30	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:30	1
<b>Boron</b>	<b>0.63</b>		0.10		mg/L		05/14/21 08:28	05/18/21 13:27	2
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:30	1
<b>Calcium</b>	<b>110</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:30	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:30	1
<b>Cobalt</b>	<b>0.0097</b>		0.0010		mg/L		05/14/21 08:28	05/17/21 17:30	1
<b>Lead</b>	<b>0.0014</b>		0.00050		mg/L		05/14/21 08:28	05/17/21 17:30	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:30	1
<b>Selenium</b>	<b>0.0050</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:30	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>500</b>		10		mg/L			05/14/21 06:14	1
<b>Chloride</b>	<b>54</b>		10		mg/L			05/27/21 12:44	5
<b>Fluoride</b>	<b>0.24</b>		0.10		mg/L			05/27/21 08:08	1
<b>Sulfate</b>	<b>56</b>		25		mg/L			05/27/21 12:43	5

# Definitions/Glossary

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

Job ID: 500-199030-1

## Qualifiers

### Metals

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

## 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: Powerton CCR

Job ID: 500-199030-1

## Metals

### Prep Batch: 598871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total Recoverable	Water	3005A	
500-199030-2	MW-02	Total Recoverable	Water	3005A	
500-199030-3	MW-03	Total Recoverable	Water	3005A	
500-199030-4	MW-04	Total Recoverable	Water	3005A	
500-199030-5	MW-05	Total Recoverable	Water	3005A	
500-199030-6	MW-10	Total Recoverable	Water	3005A	
500-199030-7	FAB Duplicate	Total Recoverable	Water	3005A	
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-199030-1 MS	MW-01	Total Recoverable	Water	3005A	
500-199030-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-199030-1 DU	MW-01	Total Recoverable	Water	3005A	

### Analysis Batch: 599211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total Recoverable	Water	6010C	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6010C	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6010C	598871
500-199030-1 MS	MW-01	Total Recoverable	Water	6010C	598871
500-199030-1 MSD	MW-01	Total Recoverable	Water	6010C	598871
500-199030-1 DU	MW-01	Total Recoverable	Water	6010C	598871

### Analysis Batch: 599524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total Recoverable	Water	6020A	598871
500-199030-2	MW-02	Total Recoverable	Water	6020A	598871
500-199030-3	MW-03	Total Recoverable	Water	6020A	598871
500-199030-4	MW-04	Total Recoverable	Water	6020A	598871
500-199030-5	MW-05	Total Recoverable	Water	6020A	598871
500-199030-6	MW-10	Total Recoverable	Water	6020A	598871
500-199030-7	FAB Duplicate	Total Recoverable	Water	6020A	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6020A	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598871
500-199030-1 MS	MW-01	Total Recoverable	Water	6020A	598871
500-199030-1 MSD	MW-01	Total Recoverable	Water	6020A	598871
500-199030-1 DU	MW-01	Total Recoverable	Water	6020A	598871

### Prep Batch: 599726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	7470A	
MB 500-599726/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-599726/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 599734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total Recoverable	Water	6020A	598871
500-199030-2	MW-02	Total Recoverable	Water	6020A	598871
500-199030-3	MW-03	Total Recoverable	Water	6020A	598871
500-199030-4	MW-04	Total Recoverable	Water	6020A	598871
500-199030-5	MW-05	Total Recoverable	Water	6020A	598871
500-199030-6	MW-10	Total Recoverable	Water	6020A	598871

Eurofins TestAmerica, Chicago

# QC Association Summary

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

Job ID: 500-199030-1

## Metals (Continued)

### Analysis Batch: 599734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-7	FAB Duplicate	Total Recoverable	Water	6020A	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6020A	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598871
500-199030-1 MS	MW-01	Total Recoverable	Water	6020A	598871
500-199030-1 MSD	MW-01	Total Recoverable	Water	6020A	598871
500-199030-1 DU	MW-01	Total Recoverable	Water	6020A	598871

### Analysis Batch: 599974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	7470A	599726
MB 500-599726/12-A	Method Blank	Total/NA	Water	7470A	599726
LCS 500-599726/13-A	Lab Control Sample	Total/NA	Water	7470A	599726

## General Chemistry

### Analysis Batch: 598816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	SM 2540C	
500-199030-2	MW-02	Total/NA	Water	SM 2540C	
500-199030-3	MW-03	Total/NA	Water	SM 2540C	
500-199030-4	MW-04	Total/NA	Water	SM 2540C	
500-199030-5	MW-05	Total/NA	Water	SM 2540C	
500-199030-6	MW-10	Total/NA	Water	SM 2540C	
500-199030-7	FAB Duplicate	Total/NA	Water	SM 2540C	
MB 500-598816/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-598816/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 601198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	SM 4500 F C	
500-199030-2	MW-02	Total/NA	Water	SM 4500 F C	
500-199030-3	MW-03	Total/NA	Water	SM 4500 F C	
500-199030-4	MW-04	Total/NA	Water	SM 4500 F C	
500-199030-5	MW-05	Total/NA	Water	SM 4500 F C	
500-199030-6	MW-10	Total/NA	Water	SM 4500 F C	
500-199030-7	FAB Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-601198/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-601198/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-199030-1 MS	MW-01	Total/NA	Water	SM 4500 F C	
500-199030-1 MSD	MW-01	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 601223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-199030-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-199030-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-199030-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-199030-5	MW-05	Total/NA	Water	SM 4500 CI- E	
500-199030-6	MW-10	Total/NA	Water	SM 4500 CI- E	
500-199030-7	FAB Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-601223/27	Method Blank	Total/NA	Water	SM 4500 CI- E	

Eurofins TestAmerica, Chicago

# QC Association Summary

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

Job ID: 500-199030-1

## General Chemistry (Continued)

### Analysis Batch: 601223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-601223/51	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-601223/28	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-601223/52	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 601224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-199030-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-199030-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-199030-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-199030-5	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-199030-6	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-199030-7	FAB Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-601224/45	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-601224/46	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

# QC Sample Results

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

Job ID: 500-199030-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-598871/1-A**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:01	1

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

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

**Lab Sample ID: 500-199030-1 MS**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	<0.010		0.500	0.536		mg/L		107	75 - 125

**Lab Sample ID: 500-199030-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	<0.010		0.500	0.535		mg/L		107	75 - 125	0	20

**Lab Sample ID: 500-199030-1 DU**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.010		<0.010		mg/L		NC	20

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

**Lab Sample ID: MB 500-598871/1-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 16:42	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Barium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:42	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Calcium	<0.20		0.20		mg/L		05/14/21 08:28	05/17/21 16:42	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:42	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 16:42	1

Eurofins TestAmerica, Chicago



# QC Sample Results

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

Job ID: 500-199030-1

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

**Lab Sample ID: MB 500-598871/1-A**  
**Matrix: Water**  
**Analysis Batch: 599734**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		05/14/21 08:28	05/18/21 12:39	1

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.506		mg/L		101	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	2.00	2.01		mg/L		100	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	9.28		mg/L		93	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Molybdenum	1.00	0.976		mg/L		98	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599734**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.979		mg/L		98	80 - 120

**Lab Sample ID: 500-199030-1 MS**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.527		mg/L		105	75 - 125
Arsenic	<0.0010		0.100	0.106		mg/L		105	75 - 125
Barium	0.043		2.00	2.09		mg/L		102	75 - 125
Beryllium	<0.0010		0.0500	0.0513		mg/L		103	75 - 125
Cadmium	<0.00050		0.0500	0.0497		mg/L		99	75 - 125
Calcium	85		10.0	91.6	4	mg/L		64	75 - 125
Chromium	<0.0050		0.200	0.198		mg/L		99	75 - 125
Cobalt	<0.0010		0.500	0.481		mg/L		96	75 - 125
Lead	<0.00050		0.100	0.112		mg/L		112	75 - 125
Molybdenum	0.010		1.00	1.02		mg/L		101	75 - 125
Selenium	<0.0025		0.100	0.103		mg/L		103	75 - 125
Thallium	<0.0020		0.100	0.113		mg/L		113	75 - 125

# QC Sample Results

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

Job ID: 500-199030-1

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

**Lab Sample ID: 500-199030-1 MS**  
**Matrix: Water**  
**Analysis Batch: 599734**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Boron	0.21		1.00	1.17		mg/L		96	75 - 125

**Lab Sample ID: 500-199030-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.508		mg/L		102	75 - 125	4	20
Arsenic	<0.0010		0.100	0.102		mg/L		101	75 - 125	4	20
Barium	0.043		2.00	2.01		mg/L		98	75 - 125	4	20
Beryllium	<0.0010		0.0500	0.0493		mg/L		99	75 - 125	4	20
Cadmium	<0.00050		0.0500	0.0477		mg/L		95	75 - 125	4	20
Calcium	85		10.0	88.8	4	mg/L		36	75 - 125	3	20
Chromium	<0.0050		0.200	0.193		mg/L		96	75 - 125	3	20
Cobalt	<0.0010		0.500	0.466		mg/L		93	75 - 125	3	20
Lead	<0.00050		0.100	0.107		mg/L		107	75 - 125	4	20
Molybdenum	0.010		1.00	0.985		mg/L		97	75 - 125	4	20
Selenium	<0.0025		0.100	0.101		mg/L		101	75 - 125	2	20
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125	5	20

**Lab Sample ID: 500-199030-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 599734**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	0.21		1.00	1.15		mg/L		94	75 - 125	2	20

**Lab Sample ID: 500-199030-1 DU**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: MW-01**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.043		0.0433		mg/L		0.2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	85		84.4		mg/L		0.9	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.010		0.00995		mg/L		3	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

# QC Sample Results

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

Job ID: 500-199030-1

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

Lab Sample ID: 500-199030-1 DU  
Matrix: Water  
Analysis Batch: 599734

Client Sample ID: MW-01  
Prep Type: Total Recoverable  
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Boron	0.21		0.204		mg/L		4	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-599726/12-A  
Matrix: Water  
Analysis Batch: 599974

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 599726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 07:19	1

Lab Sample ID: LCS 500-599726/13-A  
Matrix: Water  
Analysis Batch: 599974

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 599726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00203		mg/L		101	80 - 120

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

Lab Sample ID: MB 500-598816/1  
Matrix: Water  
Analysis Batch: 598816

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/14/21 05:38	1

Lab Sample ID: LCS 500-598816/2  
Matrix: Water  
Analysis Batch: 598816

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	242		mg/L		97	80 - 120

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

Lab Sample ID: MB 500-601223/27  
Matrix: Water  
Analysis Batch: 601223

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/27/21 12:33	1

Lab Sample ID: MB 500-601223/51  
Matrix: Water  
Analysis Batch: 601223

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/27/21 12:50	1

Eurofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-199030-1

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

Lab Sample ID: LCS 500-601223/28  
Matrix: Water  
Analysis Batch: 601223

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	20.8		mg/L		104	85 - 115

Lab Sample ID: LCS 500-601223/52  
Matrix: Water  
Analysis Batch: 601223

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

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-601198/3  
Matrix: Water  
Analysis Batch: 601198

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/27/21 07:27	1

Lab Sample ID: LCS 500-601198/4  
Matrix: Water  
Analysis Batch: 601198

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	11.2		mg/L		112	80 - 120

Lab Sample ID: 500-199030-1 MS  
Matrix: Water  
Analysis Batch: 601198

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.21		10.0	11.6		mg/L		114	75 - 125

Lab Sample ID: 500-199030-1 MSD  
Matrix: Water  
Analysis Batch: 601198

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Fluoride	0.21		10.0	11.7		mg/L		115	75 - 125	0	20

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

Lab Sample ID: MB 500-601224/45  
Matrix: Water  
Analysis Batch: 601224

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/27/21 12:13	1

# QC Sample Results

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

Job ID: 500-199030-1

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

Lab Sample ID: LCS 500-601224/46  
Matrix: Water  
Analysis Batch: 601224

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	22.0		mg/L		110	80 - 120

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- 13





ORIGIN ID: FIRA (262) 622-1143  
MITCHEL DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

SHIP DATE: 11MAY21  
ACTWGT: 54.75 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

WESTMONT, IL 60559  
UNITED STATES US

TO TEST AMERICA  
SAMPLE RECEIVING  
2417 BOND ST



500-199030 Wayb

UNIVERSITY PARK IL 60484

(708) 634-5200

REF:

DEPT:

INU:

PO:



FedEx  
Express



4211010331021127

TRK# 7870 4764 1793  
0201

WED - 12 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484  
IL-US ORD



MITCHEL DOLAN (262) 622-1143  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

SHIP DATE: 11MAY21  
ACTWGT: 63.65 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

WESTMONT, IL 60559  
UNITED STATES US

TO TEST AMERICA  
SAMPLE RECEIVING  
2417 BOND ST

UNIVERSITY PARK IL 60484

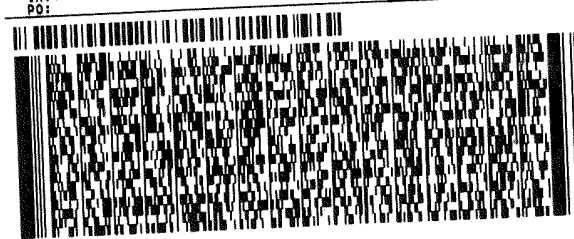
(708) 634-5200

REF:

DEPT:

INU:

PO:



FedEx  
Express



4211010331021127

TRK# 7870 4756 4883  
0201

WED - 12 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484  
IL-US ORD



- 1
- 2
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- 9
- 10
- 11
- 12
- 13

# Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:		Carrier Tracking No(s):		COC No:					
Client Contact: Shipping/Receiving		Mockler, Diana J		500-148525.1		500-148525.1					
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin: Illinois		Page: Page 1 of 1					
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 6/1/2021 TAT Requested (days):		Accreditations Required (See note): NELAP - Illinois		Job #: 500-199030-1					
Project Name: Powerton CCR Site: MWG - Powerton		PO #: WO #: Project #: 50011612 SSOW#:		Analysis Requested		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Z - other (specify) Other:					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Overstool, BT=Isaac, A=Al)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_8 Standard Target List	Ra226Ra228 GFPC	Total Number of Containers	Special Instructions/Note:
MW-01 (500-199030-1)	5/11/21	13:06 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-02 (500-199030-2)	5/11/21	12:06 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-03 (500-199030-3)	5/11/21	11:07 Central	Water	Water	X	X	X	X	X	2	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-04 (500-199030-4)	5/11/21	10:09 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-05 (500-199030-5)	5/11/21	09:06 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-10 (500-199030-6)	5/11/21	14:27 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
FAB Duplicate (500-199030-7)	5/11/21	Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS

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/ests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *Stephanie Hemminger* Date/Time: 5/11/21 16:30 Company: ETA-CH  
 Relinquished by: **FEDEX** Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
 Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements: \_\_\_\_\_  
 Method of Shipment: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: **FEDEX** Date/Time: 5/11/21 08:45 Company: ETA STU  
 Received by: *[Signature]* Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199030-1

**Login Number: 199030**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5,0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Lab Chronicle

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

Job ID: 500-199030-1

**Client Sample ID: MW-01**

**Date Collected: 05/11/21 13:06**

**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:08	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 16:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 12:46	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:44	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 05:58	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	601223	05/27/21 12:57	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:23	MS	TAL CHI

**Client Sample ID: MW-02**

**Date Collected: 05/11/21 12:06**

**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:06	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 13:03	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:01	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	601223	05/27/21 12:57	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:43	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:26	MS	TAL CHI

**Client Sample ID: MW-03**

**Date Collected: 05/11/21 11:07**

**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 13:07	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:03	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	601223	05/27/21 12:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:27	MS	TAL CHI

# Lab Chronicle

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

Job ID: 500-199030-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-199030-4**

**Date Collected: 05/11/21 10:09**

**Matrix: Water**

**Date Received: 05/12/21 14:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	599734	05/18/21 13:10	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	601223	05/27/21 12:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:27	MS	TAL CHI

**Client Sample ID: MW-05**

**Lab Sample ID: 500-199030-5**

**Date Collected: 05/11/21 09:06**

**Matrix: Water**

**Date Received: 05/12/21 14:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 13:20	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	601223	05/27/21 12:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601224	05/27/21 12:33	MS	TAL CHI

**Client Sample ID: MW-10**

**Lab Sample ID: 500-199030-6**

**Date Collected: 05/11/21 14:27**

**Matrix: Water**

**Date Received: 05/12/21 14:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	599734	05/18/21 13:24	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	601223	05/27/21 12:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:56	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:33	MS	TAL CHI

**Client Sample ID: FAB Duplicate**

**Lab Sample ID: 500-199030-7**

**Date Collected: 05/11/21 00:00**

**Matrix: Water**

**Date Received: 05/12/21 14:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:30	FXG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-199030-1

**Client Sample ID: FAB Duplicate**

**Lab Sample ID: 500-199030-7**

**Date Collected: 05/11/21 00:00**

**Matrix: Water**

**Date Received: 05/12/21 14:55**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	599734	05/18/21 13:27	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	601223	05/27/21 12:44	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:08	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601224	05/27/21 12:43	MS	TAL CHI

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-199030-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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## ANALYTICAL REPORT

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

Laboratory Job ID: 500-199030-2  
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:  
6/16/2021 3:14:35 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: Powerton CCR

Job ID: 500-199030-2

## Job ID: 500-199030-2

### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

#### Job Narrative 500-199030-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/12/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.5° C and 0.7° C.

#### RAD

Method 903.0: Radium-226 prep batch 160-510273:

The following sample has Ba carrier recovery (37.8%) outside the lower QC limit (40%). During the initial prep, some of the sample was lost due to prep error. The matrix spike recovery is within limits and the RER/RPD is within criteria. The data has been reported with this narrative. (160-42036-E-6-C MSD)

Method 903.0: Radium-226 prep batch 160-510273:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-01 (500-199030-1), MW-02 (500-199030-2), MW-03 (500-199030-3), MW-04 (500-199030-4), MW-05 (500-199030-5), MW-10 (500-199030-6), FAB Duplicate (500-199030-7), (LCS 160-510273/1-A), (MB 160-510273/25-A), (160-42036-E-6-A), (160-42036-E-6-B MS) and (160-42036-E-6-C MSD)

Method 904.0: Radium-228 Batch 510281

The following sample had Barium recovery below the 40% QC limit: (160-42036-E-6-F MSD). The detection limit was achieved, so the laboratory does not believe this excursion adversely affects the data. Therefore, the data have been reported with this narrative.

Method 904.0: Radium-228 Batch 510281

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-01 (500-199030-1), MW-02 (500-199030-2), MW-03 (500-199030-3), MW-04 (500-199030-4), MW-05 (500-199030-5), MW-10 (500-199030-6), FAB Duplicate (500-199030-7), (LCS 160-510281/1-A), (MB 160-510281/25-A), (160-42036-E-6-D), (160-42036-E-6-E MS) and (160-42036-E-6-F MSD)

Method PrecSep\_0:

Method PrecSep\_0: Ra-228 Prep Batch 160-510281:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-02 (500-199030-2), MW-03 (500-199030-3), MW-10 (500-199030-6) and FAB Duplicate (500-199030-7). This is an indicator of matrix interference.

Method PrecSep-21:

Method PrecSep-21: Ra-226 Prep Batch 160-510273:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-02 (500-199030-2), MW-03 (500-199030-3), MW-10 (500-199030-6) and FAB Duplicate (500-199030-7). This is an indicator of matrix interference.

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: Powerton CCR

Job ID: 500-199030-2

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: Powerton CCR

Job ID: 500-199030-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-199030-1	MW-01	Water	05/11/21 13:06	05/12/21 14:55	
500-199030-2	MW-02	Water	05/11/21 12:06	05/12/21 14:55	
500-199030-3	MW-03	Water	05/11/21 11:07	05/12/21 14:55	
500-199030-4	MW-04	Water	05/11/21 10:09	05/12/21 14:55	
500-199030-5	MW-05	Water	05/11/21 09:06	05/12/21 14:55	
500-199030-6	MW-10	Water	05/11/21 14:27	05/12/21 14:55	
500-199030-7	FAB Duplicate	Water	05/11/21 00:00	05/12/21 14:55	

# Client Sample Results

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

Job ID: 500-199030-2

**Client Sample ID: MW-01**  
**Date Collected: 05/11/21 13:06**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-1**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0867	U	0.0875	0.0878	1.00	0.137	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					05/18/21 10:13	06/15/21 07:14	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	0.434	U	0.330	0.332	1.00	0.518	pCi/L	05/18/21 11:20	06/09/21 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					05/18/21 11:20	06/09/21 10:52	1
Y Carrier	86.4		40 - 110					05/18/21 11:20	06/09/21 10:52	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
<b>Combined Radium 226 + 228</b>	<b>0.521</b>		0.341	0.343	5.00	0.518	pCi/L		06/16/21 14:06	1

# Client Sample Results

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

Job ID: 500-199030-2

**Client Sample ID: MW-02**  
**Date Collected: 05/11/21 12:06**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0256	U	0.0696	0.0697	1.00	0.154	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		40 - 110					05/18/21 10:13	06/15/21 07:14	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	0.352	U	0.327	0.329	1.00	0.528	pCi/L	05/18/21 11:20	06/09/21 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.2		40 - 110					05/18/21 11:20	06/09/21 10:52	1
Y Carrier	87.5		40 - 110					05/18/21 11:20	06/09/21 10:52	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	0.327	U	0.334	0.336	5.00	0.528	pCi/L		06/16/21 14:04	1

# Client Sample Results

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

Job ID: 500-199030-2

**Client Sample ID: MW-03**  
**Date Collected: 05/11/21 11:07**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-3**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0644	U	0.0829	0.0831	1.00	0.138	pCi/L	05/18/21 10:13	06/15/21 07:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.7		40 - 110					05/18/21 10:13	06/15/21 07:17	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	0.0875	U	0.296	0.297	1.00	0.519	pCi/L	05/18/21 11:20	06/09/21 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.7		40 - 110					05/18/21 11:20	06/09/21 10:52	1
Y Carrier	85.6		40 - 110					05/18/21 11:20	06/09/21 10:52	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	0.152	U	0.307	0.308	5.00	0.519	pCi/L		06/16/21 14:04	1

# Client Sample Results

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

Job ID: 500-199030-2

**Client Sample ID: MW-04**  
Date Collected: 05/11/21 10:09  
Date Received: 05/12/21 14:55

**Lab Sample ID: 500-199030-4**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0429	U	0.0909	0.0910	1.00	0.162	pCi/L	05/18/21 10:13	06/15/21 07:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					05/18/21 10:13	06/15/21 07:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.490</b>		0.305	0.308	1.00	0.462	pCi/L	05/18/21 11:20	06/09/21 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					05/18/21 11:20	06/09/21 10:52	1
Y Carrier	85.6		40 - 110					05/18/21 11:20	06/09/21 10:52	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
<b>Combined Radium 226 + 228</b>	<b>0.533</b>		0.318	0.321	5.00	0.462	pCi/L		06/16/21 14:04	1

# Client Sample Results

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

Job ID: 500-199030-2

**Client Sample ID: MW-05**  
**Date Collected: 05/11/21 09:06**  
**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-5**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.116	U	0.101	0.101	1.00	0.152	pCi/L	05/18/21 10:13	06/15/21 07:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		40 - 110					05/18/21 10:13	06/15/21 07:17	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	0.212	U	0.313	0.313	1.00	0.525	pCi/L	05/18/21 11:20	06/09/21 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.4		40 - 110					05/18/21 11:20	06/09/21 10:52	1
Y Carrier	84.9		40 - 110					05/18/21 11:20	06/09/21 10:52	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	0.328	U	0.329	0.329	5.00	0.525	pCi/L		06/16/21 14:04	1

# Client Sample Results

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

Job ID: 500-199030-2

**Client Sample ID: MW-10**

**Lab Sample ID: 500-199030-6**

Date Collected: 05/11/21 14:27

Matrix: Water

Date Received: 05/12/21 14:55

**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>0.498</b>		0.158	0.164	1.00	0.150	pCi/L	05/18/21 10:13	06/15/21 07:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					05/18/21 10:13	06/15/21 07:17	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.917</b>		0.361	0.371	1.00	0.495	pCi/L	05/18/21 11:20	06/09/21 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.2		40 - 110					05/18/21 11:20	06/09/21 10:52	1
Y Carrier	86.7		40 - 110					05/18/21 11:20	06/09/21 10:52	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
<b>Combined Radium 226 + 228</b>	<b>1.42</b>		0.394	0.406	5.00	0.495	pCi/L		06/16/21 14:04	1



# Client Sample Results

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

Job ID: 500-199030-2

**Client Sample ID: FAB Duplicate**

**Lab Sample ID: 500-199030-7**

Date Collected: 05/11/21 00:00

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.554		0.188	0.195	1.00	0.174	pCi/L	05/18/21 10:13	06/15/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.3		40 - 110					05/18/21 10:13	06/15/21 07:18	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	0.548	U	0.486	0.489	1.00	0.780	pCi/L	05/18/21 11:20	06/09/21 11:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.3		40 - 110					05/18/21 11:20	06/09/21 11:15	1
Y Carrier	85.6		40 - 110					05/18/21 11:20	06/09/21 11:15	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	1.10		0.521	0.526	5.00	0.780	pCi/L		06/16/21 14:04	1

# Definitions/Glossary

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

Job ID: 500-199030-2

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-199030-2

## Rad

### Prep Batch: 510273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	PrecSep-21	
500-199030-2	MW-02	Total/NA	Water	PrecSep-21	
500-199030-3	MW-03	Total/NA	Water	PrecSep-21	
500-199030-4	MW-04	Total/NA	Water	PrecSep-21	
500-199030-5	MW-05	Total/NA	Water	PrecSep-21	
500-199030-6	MW-10	Total/NA	Water	PrecSep-21	
500-199030-7	FAB Duplicate	Total/NA	Water	PrecSep-21	
MB 160-510273/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-510273/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 510281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	PrecSep_0	
500-199030-2	MW-02	Total/NA	Water	PrecSep_0	
500-199030-3	MW-03	Total/NA	Water	PrecSep_0	
500-199030-4	MW-04	Total/NA	Water	PrecSep_0	
500-199030-5	MW-05	Total/NA	Water	PrecSep_0	
500-199030-6	MW-10	Total/NA	Water	PrecSep_0	
500-199030-7	FAB Duplicate	Total/NA	Water	PrecSep_0	
MB 160-510281/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-510281/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-199030-2

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

**Lab Sample ID: MB 160-510273/25-A**  
**Matrix: Water**  
**Analysis Batch: 514366**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 510273**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1499		0.101	0.102	1.00	0.143	pCi/L	05/18/21 10:13	06/15/21 10:27	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	81.1		40 - 110		05/18/21 10:13	06/15/21 10:27	1			

**Lab Sample ID: LCS 160-510273/1-A**  
**Matrix: Water**  
**Analysis Batch: 514296**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 510273**

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-226	11.3	10.49		1.13	1.00	0.153	pCi/L	92	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier							
Ba Carrier	82.6		40 - 110						

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

**Lab Sample ID: MB 160-510281/25-A**  
**Matrix: Water**  
**Analysis Batch: 513485**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 510281**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2666	U	0.291	0.292	1.00	0.476	pCi/L	05/18/21 11:20	06/09/21 11:21	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
	%Yield	Qualifier								
Ba Carrier	81.1		40 - 110		05/18/21 11:20	06/09/21 11:21	1			
Y Carrier	89.0		40 - 110		05/18/21 11:20	06/09/21 11:21	1			

**Lab Sample ID: LCS 160-510281/1-A**  
**Matrix: Water**  
**Analysis Batch: 513446**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 510281**

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual	Uncert. (2σ+/-)					
Radium-228	9.64	9.783		1.20	1.00	0.540	pCi/L	101	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier							
Ba Carrier	82.6		40 - 110						
Y Carrier	86.0		40 - 110						



ORIGIN ID: FIRA (262) 622-1143  
MITCHEL DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

SHIP DATE: 11MAY21  
ACTWGT: 54.75 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

WESTMONT, IL 60559  
UNITED STATES US

TO TEST AMERICA  
SAMPLE RECEIVING  
2417 BOND ST



500-199030 Wayb

UNIVERSITY PARK IL 60484

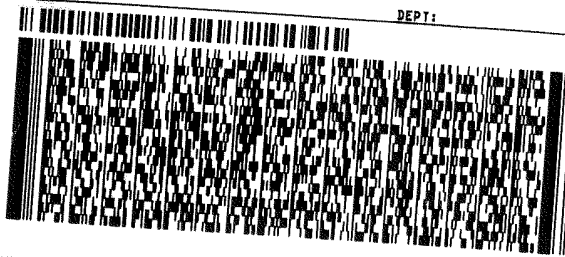
(708) 634-5200

REF:

DEPT:

INU:

PO:



FedEx  
Express



410103010231127

TRK# 7870 4764 1793  
0201

WED - 12 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484  
IL-US ORD



MITCHEL DOLAN (262) 622-1143  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

SHIP DATE: 11MAY21  
ACTWGT: 63.65 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

WESTMONT, IL 60559  
UNITED STATES US

TO TEST AMERICA  
SAMPLE RECEIVING  
2417 BOND ST

UNIVERSITY PARK IL 60484

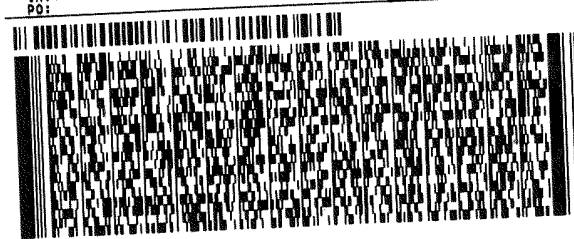
(708) 634-5200

REF:

DEPT:

INU:

PO:



FedEx  
Express



410103010231127

TRK# 7870 4756 4883  
0201

WED - 12 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484  
IL-US ORD



- 1
- 2
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- 13
- 14





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199030-2

**Login Number: 199030**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Scott, Sherri L**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5,0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	False	
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: 500-199030-2

**Login Number: 199030**

**List Number: 2**

**Creator: Worthington, Sierra M**

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

**List Creation: 05/13/21 11:16 AM**

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



# Lab Chronicle

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

Job ID: 500-199030-2

## Client Sample ID: MW-01

Date Collected: 05/11/21 13:06

Date Received: 05/12/21 14:55

## Lab Sample ID: 500-199030-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:06	FLC	TAL SL

## Client Sample ID: MW-02

Date Collected: 05/11/21 12:06

Date Received: 05/12/21 14:55

## Lab Sample ID: 500-199030-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:04	FLC	TAL SL

## Client Sample ID: MW-03

Date Collected: 05/11/21 11:07

Date Received: 05/12/21 14:55

## Lab Sample ID: 500-199030-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514476	06/15/21 07:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:04	FLC	TAL SL

## Client Sample ID: MW-04

Date Collected: 05/11/21 10:09

Date Received: 05/12/21 14:55

## Lab Sample ID: 500-199030-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514476	06/15/21 07:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:04	FLC	TAL SL

# Lab Chronicle

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

Job ID: 500-199030-2

**Client Sample ID: MW-05**

**Date Collected: 05/11/21 09:06**

**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514476	06/15/21 07:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:04	FLC	TAL SL

**Client Sample ID: MW-10**

**Date Collected: 05/11/21 14:27**

**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-6**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514476	06/15/21 07:17	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:04	FLC	TAL SL

**Client Sample ID: FAB Duplicate**

**Date Collected: 05/11/21 00:00**

**Date Received: 05/12/21 14:55**

**Lab Sample ID: 500-199030-7**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514476	06/15/21 07:18	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513485	06/09/21 11:15	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:04	FLC	TAL SL

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-199030-2

## Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

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

# Tracer/Carrier Summary

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

Job ID: 500-199030-2

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-199030-1	MW-01	76.0
500-199030-2	MW-02	77.2
500-199030-3	MW-03	72.7
500-199030-4	MW-04	79.3
500-199030-5	MW-05	75.4
500-199030-6	MW-10	74.2
500-199030-7	FAB Duplicate	73.3
LCS 160-510273/1-A	Lab Control Sample	82.6
MB 160-510273/25-A	Method Blank	81.1

#### Tracer/Carrier Legend

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-199030-1	MW-01	76.0	86.4
500-199030-2	MW-02	77.2	87.5
500-199030-3	MW-03	72.7	85.6
500-199030-4	MW-04	79.3	85.6
500-199030-5	MW-05	75.4	84.9
500-199030-6	MW-10	74.2	86.7
500-199030-7	FAB Duplicate	73.3	85.6
LCS 160-510281/1-A	Lab Control Sample	82.6	86.0
MB 160-510281/25-A	Method Blank	81.1	89.0

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-199086-1  
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:  
6/4/2021 1:19:37 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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Have a Question?



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*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*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: Powerton CCR MCB

Job ID: 500-199086-1

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**Job ID: 500-199086-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-199086-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/13/2021 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 0.0° C, 0.3° C, 0.4° C, 1.1° C, 1.1° C, 1.1° C, 4.1° C and 5.3° C.

**Receipt Exceptions**

Didn't receive an unpreserved bottle for samples 2-4.

**Metals**

Methods 200.8, 6020, 6020A: The initial calibration verification (ICV) for batch 500-600214 analyzed the wrong reagent. The low level ICVL and all CCV were within control limits. The data was reported.

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

**General Chemistry**

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





# Detection Summary

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

Job ID: 500-199086-1

## Client Sample ID: MW-17

## Lab Sample ID: 500-199086-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.017		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0042		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.027		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.1		0.25		mg/L	5		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.051		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Total/NA
Chloride	160		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.75		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	7.7	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	470		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-14

## Lab Sample ID: 500-199086-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.028		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0047		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.038		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.6		0.25		mg/L	5		6020A	Total Recoverable
Calcium	210		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.034		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.0039		0.0025		mg/L	1		6020A	Total Recoverable
Thallium	0.0028		0.0020		mg/L	1		6020A	Total Recoverable

## Client Sample ID: MW-21

## Lab Sample ID: 500-199086-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0023		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.19		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.42		0.050		mg/L	1		6020A	Total Recoverable
Calcium	66		0.20		mg/L	1		6020A	Total Recoverable

## Client Sample ID: MW-20

## Lab Sample ID: 500-199086-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.019		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.21		0.0025		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Detection Summary

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

Job ID: 500-199086-1

## Client Sample ID: MW-20 (Continued)

## Lab Sample ID: 500-199086-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.43		0.050		mg/L	1		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0039		0.0010		mg/L	1		6020A	Total Recoverable

## Client Sample ID: Duplicate

## Lab Sample ID: 500-199086-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.017		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0074		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.027		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.2		0.25		mg/L	5		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.050		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1200		10		mg/L	1		SM 2540C	Total/NA
Chloride	160		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.73		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	7.7	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	490		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-13

## Lab Sample ID: 500-199086-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.023		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.23		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.6		0.050		mg/L	1		6020A	Total Recoverable
Calcium	340		2.0		mg/L	10		6020A	Total Recoverable
Molybdenum	0.022		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	2500		10		mg/L	1		SM 2540C	Total/NA
Chloride	130		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.39		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	7.7	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	1400		250		mg/L	50		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-14

## Lab Sample ID: 500-199086-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	1700		10		mg/L	1		SM 2540C	Total/NA
Chloride	100		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	1.1		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	7.2	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	640		100		mg/L	20		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Detection Summary

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

Job ID: 500-199086-1

## Client Sample ID: MW-20

## Lab Sample ID: 500-199086-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	2200		10		mg/L	1		SM 2540C	Total/NA
Chloride	150		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	6.9	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	850		100		mg/L	20		SM 4500 SO4 E	Total/NA

## Client Sample ID: MW-21

## Lab Sample ID: 500-199086-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	680		10		mg/L	1		SM 2540C	Total/NA
Chloride	22		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.16		0.10		mg/L	1		SM 4500 F C	Total/NA
pH	6.7	HF	0.2		SU	1		SM 4500 H+ B	Total/NA
Sulfate	57		25		mg/L	5		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

# Method Summary

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

Job ID: 500-199086-1

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

#### Protocol References:

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

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 500-199086-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-199086-1	MW-17	Water	05/12/21 09:04	05/13/21 13:40	
500-199086-2	MW-14	Water	05/12/21 11:38	05/13/21 13:40	
500-199086-3	MW-21	Water	05/12/21 13:45	05/13/21 13:40	
500-199086-4	MW-20	Water	05/12/21 12:46	05/13/21 13:40	
500-199086-5	Duplicate	Water	05/12/21 00:00	05/13/21 13:40	
500-199086-6	MW-13	Water	05/13/21 09:46	05/14/21 09:25	
500-199086-7	MW-14	Water	05/19/21 10:55	05/20/21 13:35	
500-199086-8	MW-20	Water	05/19/21 11:15	05/20/21 13:35	
500-199086-9	MW-21	Water	05/19/21 11:40	05/20/21 13:35	

# Client Sample Results

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

Job ID: 500-199086-1

**Client Sample ID: MW-17**

**Date Collected: 05/12/21 09:04**

**Date Received: 05/13/21 13:40**

**Lab Sample ID: 500-199086-1**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.010		mg/L		05/14/21 08:28	05/14/21 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:33	1
Arsenic	0.0042		0.0010		mg/L		05/14/21 08:28	05/17/21 17:33	1
Barium	0.027		0.0025		mg/L		05/14/21 08:28	05/17/21 17:33	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:33	1
Boron	1.1		0.25		mg/L		05/14/21 08:28	05/18/21 13:31	5
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:33	1
Calcium	130		0.20		mg/L		05/14/21 08:28	05/17/21 17:33	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:33	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:33	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:33	1
Molybdenum	0.051		0.0050		mg/L		05/14/21 08:28	05/17/21 17:33	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:33	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/18/21 00:41	1
Chloride	160		10		mg/L			06/01/21 15:52	5
Fluoride	0.75		0.10		mg/L			06/03/21 09:41	1
pH	7.7	HF	0.2		SU			05/24/21 13:43	1
Sulfate	470		100		mg/L			06/01/21 14:50	20

**Client Sample ID: MW-14**

**Date Collected: 05/12/21 11:38**

**Date Received: 05/13/21 13:40**

**Lab Sample ID: 500-199086-2**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.028		0.010		mg/L		05/14/21 08:28	05/14/21 18:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:36	1
Arsenic	0.0047		0.0010		mg/L		05/14/21 08:28	05/17/21 17:36	1
Barium	0.038		0.0025		mg/L		05/14/21 08:28	05/17/21 17:36	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:36	1
Boron	2.6		0.25		mg/L		05/14/21 08:28	05/18/21 13:34	5
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:36	1
Calcium	210		0.20		mg/L		05/14/21 08:28	05/17/21 17:36	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:36	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:36	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:36	1
Molybdenum	0.034		0.0050		mg/L		05/14/21 08:28	05/17/21 17:36	1

Euofins TestAmerica, Chicago

# Client Sample Results

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

Job ID: 500-199086-1

**Client Sample ID: MW-14**  
Date Collected: 05/12/21 11:38  
Date Received: 05/13/21 13:40

**Lab Sample ID: 500-199086-2**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.0039		0.0025		mg/L		05/14/21 08:28	05/17/21 17:36	1
Thallium	0.0028		0.0020		mg/L		05/14/21 08:28	05/17/21 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:48	1

**Client Sample ID: MW-21**  
Date Collected: 05/12/21 13:45  
Date Received: 05/13/21 13:40

**Lab Sample ID: 500-199086-3**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:40	1
Arsenic	0.0023		0.0010		mg/L		05/14/21 08:28	05/17/21 17:40	1
Barium	0.19		0.0025		mg/L		05/14/21 08:28	05/17/21 17:40	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:40	1
Boron	0.42		0.050		mg/L		05/14/21 08:28	05/18/21 13:38	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:40	1
Calcium	66		0.20		mg/L		05/14/21 08:28	05/18/21 13:38	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:40	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:40	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:40	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:40	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:40	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:50	1

**Client Sample ID: MW-20**  
Date Collected: 05/12/21 12:46  
Date Received: 05/13/21 13:40

**Lab Sample ID: 500-199086-4**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:43	1
Arsenic	0.019		0.0010		mg/L		05/14/21 08:28	05/17/21 17:43	1
Barium	0.21		0.0025		mg/L		05/14/21 08:28	05/17/21 17:43	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:43	1
Boron	0.43		0.050		mg/L		05/14/21 08:28	05/18/21 13:41	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:43	1

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# Client Sample Results

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

Job ID: 500-199086-1

**Client Sample ID: MW-20**

**Lab Sample ID: 500-199086-4**

Date Collected: 05/12/21 12:46

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Calcium</b>	<b>130</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:43	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:43	1
<b>Cobalt</b>	<b>0.0039</b>		0.0010		mg/L		05/14/21 08:28	05/17/21 17:43	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:43	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:43	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:43	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:52	1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-199086-5**

Date Collected: 05/12/21 00:00

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lithium</b>	<b>0.017</b>		0.010		mg/L		05/14/21 08:28	05/14/21 18:48	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		05/14/21 08:28	05/17/21 17:47	1
<b>Arsenic</b>	<b>0.0074</b>		0.0010		mg/L		05/14/21 08:28	05/17/21 17:47	1
<b>Barium</b>	<b>0.027</b>		0.0025		mg/L		05/14/21 08:28	05/17/21 17:47	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:47	1
<b>Boron</b>	<b>1.2</b>		0.25		mg/L		05/14/21 08:28	05/18/21 13:45	5
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:47	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		05/14/21 08:28	05/17/21 17:47	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:47	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:47	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:47	1
<b>Molybdenum</b>	<b>0.050</b>		0.0050		mg/L		05/14/21 08:28	05/17/21 17:47	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:47	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1200</b>		10		mg/L			05/18/21 00:44	1
<b>Chloride</b>	<b>160</b>		10		mg/L			06/01/21 15:52	5
<b>Fluoride</b>	<b>0.73</b>		0.10		mg/L			06/03/21 09:44	1
<b>pH</b>	<b>7.7</b>	HF	0.2		SU			05/24/21 13:49	1
<b>Sulfate</b>	<b>490</b>		100		mg/L			06/01/21 14:50	20



# Client Sample Results

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

Job ID: 500-199086-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-199086-6**

Date Collected: 05/13/21 09:46

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/21 08:28	05/19/21 17:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 17:57	1
<b>Arsenic</b>	<b>0.023</b>		0.0010		mg/L		05/19/21 08:28	05/19/21 17:57	1
<b>Barium</b>	<b>0.23</b>		0.0025		mg/L		05/19/21 08:28	05/19/21 17:57	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:57	1
<b>Boron</b>	<b>2.6</b>		0.050		mg/L		05/19/21 08:28	05/19/21 17:57	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 17:57	1
<b>Calcium</b>	<b>340</b>		2.0		mg/L		05/19/21 08:28	05/20/21 19:08	10
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 17:57	1
Cobalt	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:57	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 17:57	1
<b>Molybdenum</b>	<b>0.022</b>		0.0050		mg/L		05/19/21 08:28	05/19/21 17:57	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 17:57	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 17:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 09:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>2500</b>		10		mg/L			05/18/21 00:46	1
<b>Chloride</b>	<b>130</b>		10		mg/L			06/01/21 15:53	5
<b>Fluoride</b>	<b>0.39</b>		0.10		mg/L			06/03/21 09:47	1
<b>pH</b>	<b>7.7</b>	HF	0.2		SU			05/24/21 13:57	1
<b>Sulfate</b>	<b>1400</b>		250		mg/L			06/01/21 14:58	50

**Client Sample ID: MW-14**

**Lab Sample ID: 500-199086-7**

Date Collected: 05/19/21 10:55

Matrix: Water

Date Received: 05/20/21 13:35

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1700</b>		10		mg/L			05/22/21 21:39	1
<b>Chloride</b>	<b>100</b>		10		mg/L			06/01/21 15:55	5
<b>Fluoride</b>	<b>1.1</b>		0.10		mg/L			06/03/21 09:49	1
<b>pH</b>	<b>7.2</b>	HF	0.2		SU			05/24/21 14:03	1
<b>Sulfate</b>	<b>640</b>		100		mg/L			06/01/21 14:52	20

**Client Sample ID: MW-20**

**Lab Sample ID: 500-199086-8**

Date Collected: 05/19/21 11:15

Matrix: Water

Date Received: 05/20/21 13:35

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>2200</b>		10		mg/L			05/22/21 21:46	1
<b>Chloride</b>	<b>150</b>		10		mg/L			06/01/21 15:56	5
<b>Fluoride</b>	<b>0.19</b>		0.10		mg/L			06/03/21 09:52	1

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# Client Sample Results

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

Job ID: 500-199086-1

**Client Sample ID: MW-20**  
Date Collected: 05/19/21 11:15  
Date Received: 05/20/21 13:35

**Lab Sample ID: 500-199086-8**  
Matrix: Water

## General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9	HF	0.2		SU			05/24/21 14:09	1
Sulfate	850		100		mg/L			06/01/21 14:58	20

**Client Sample ID: MW-21**  
Date Collected: 05/19/21 11:40  
Date Received: 05/20/21 13:35

**Lab Sample ID: 500-199086-9**  
Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	680		10		mg/L			05/22/21 21:52	1
Chloride	22		2.0		mg/L			06/01/21 15:53	1
Fluoride	0.16		0.10		mg/L			06/03/21 09:55	1
pH	6.7	HF	0.2		SU			05/24/21 14:15	1
Sulfate	57		25		mg/L			06/01/21 14:48	5

# Definitions/Glossary

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

Job ID: 500-199086-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

### 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.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

## 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: Powerton CCR MCB

Job ID: 500-199086-1

## Metals

### Prep Batch: 598871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total Recoverable	Water	3005A	
500-199086-2	MW-14	Total Recoverable	Water	3005A	
500-199086-3	MW-21	Total Recoverable	Water	3005A	
500-199086-4	MW-20	Total Recoverable	Water	3005A	
500-199086-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 599211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total Recoverable	Water	6010C	598871
500-199086-2	MW-14	Total Recoverable	Water	6010C	598871
500-199086-3	MW-21	Total Recoverable	Water	6010C	598871
500-199086-4	MW-20	Total Recoverable	Water	6010C	598871
500-199086-5	Duplicate	Total Recoverable	Water	6010C	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6010C	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6010C	598871

### Analysis Batch: 599524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total Recoverable	Water	6020A	598871
500-199086-2	MW-14	Total Recoverable	Water	6020A	598871
500-199086-3	MW-21	Total Recoverable	Water	6020A	598871
500-199086-4	MW-20	Total Recoverable	Water	6020A	598871
500-199086-5	Duplicate	Total Recoverable	Water	6020A	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6020A	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598871

### Prep Batch: 599713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-6	MW-13	Total Recoverable	Water	3005A	
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 599727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	7470A	
500-199086-2	MW-14	Total/NA	Water	7470A	
500-199086-3	MW-21	Total/NA	Water	7470A	
500-199086-4	MW-20	Total/NA	Water	7470A	
500-199086-5	Duplicate	Total/NA	Water	7470A	
500-199086-6	MW-13	Total/NA	Water	7470A	
MB 500-599727/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-599727/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-199086-5 MS	Duplicate	Total/NA	Water	7470A	
500-199086-5 MSD	Duplicate	Total/NA	Water	7470A	
500-199086-5 DU	Duplicate	Total/NA	Water	7470A	

### Analysis Batch: 599734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total Recoverable	Water	6020A	598871

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# QC Association Summary

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

Job ID: 500-199086-1

## Metals (Continued)

### Analysis Batch: 599734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-2	MW-14	Total Recoverable	Water	6020A	598871
500-199086-3	MW-21	Total Recoverable	Water	6020A	598871
500-199086-4	MW-20	Total Recoverable	Water	6020A	598871
500-199086-5	Duplicate	Total Recoverable	Water	6020A	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6020A	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598871

### Analysis Batch: 599943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-6	MW-13	Total Recoverable	Water	6010C	599713
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	6010C	599713
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	6010C	599713

### Analysis Batch: 599958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-6	MW-13	Total Recoverable	Water	6020A	599713
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	6020A	599713
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	6020A	599713

### Analysis Batch: 599974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	7470A	599727
500-199086-2	MW-14	Total/NA	Water	7470A	599727
500-199086-3	MW-21	Total/NA	Water	7470A	599727
500-199086-4	MW-20	Total/NA	Water	7470A	599727
500-199086-5	Duplicate	Total/NA	Water	7470A	599727
500-199086-6	MW-13	Total/NA	Water	7470A	599727
MB 500-599727/12-A	Method Blank	Total/NA	Water	7470A	599727
LCS 500-599727/13-A	Lab Control Sample	Total/NA	Water	7470A	599727
500-199086-5 MS	Duplicate	Total/NA	Water	7470A	599727
500-199086-5 MSD	Duplicate	Total/NA	Water	7470A	599727
500-199086-5 DU	Duplicate	Total/NA	Water	7470A	599727

### Analysis Batch: 600214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-6	MW-13	Total Recoverable	Water	6020A	599713

## General Chemistry

### Analysis Batch: 599402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	SM 2540C	
500-199086-5	Duplicate	Total/NA	Water	SM 2540C	
500-199086-6	MW-13	Total/NA	Water	SM 2540C	
MB 500-599402/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-599402/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 600380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-7	MW-14	Total/NA	Water	SM 2540C	
500-199086-8	MW-20	Total/NA	Water	SM 2540C	

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# QC Association Summary

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

Job ID: 500-199086-1

## General Chemistry (Continued)

### Analysis Batch: 600380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-9	MW-21	Total/NA	Water	SM 2540C	
MB 500-600380/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-600380/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-199086-7 MS	MW-14	Total/NA	Water	SM 2540C	
500-199086-7 DU	MW-14	Total/NA	Water	SM 2540C	
500-199086-8 DU	MW-20	Total/NA	Water	SM 2540C	

### Analysis Batch: 600507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	SM 4500 H+ B	
500-199086-5	Duplicate	Total/NA	Water	SM 4500 H+ B	
500-199086-6	MW-13	Total/NA	Water	SM 4500 H+ B	
500-199086-7	MW-14	Total/NA	Water	SM 4500 H+ B	
500-199086-8	MW-20	Total/NA	Water	SM 4500 H+ B	
500-199086-9	MW-21	Total/NA	Water	SM 4500 H+ B	
LCS 500-600507/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCSD 500-600507/6	Lab Control Sample Dup	Total/NA	Water	SM 4500 H+ B	
500-199086-1 DU	MW-17	Total/NA	Water	SM 4500 H+ B	
500-199086-5 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	
500-199086-6 DU	MW-13	Total/NA	Water	SM 4500 H+ B	
500-199086-7 DU	MW-14	Total/NA	Water	SM 4500 H+ B	
500-199086-8 DU	MW-20	Total/NA	Water	SM 4500 H+ B	
500-199086-9 DU	MW-21	Total/NA	Water	SM 4500 H+ B	

### Analysis Batch: 601767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-199086-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-199086-6	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-199086-7	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-199086-8	MW-20	Total/NA	Water	SM 4500 SO4 E	
500-199086-9	MW-21	Total/NA	Water	SM 4500 SO4 E	
MB 500-601767/47	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-601767/48	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 601771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-199086-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-199086-6	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-199086-7	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-199086-8	MW-20	Total/NA	Water	SM 4500 Cl- E	
500-199086-9	MW-21	Total/NA	Water	SM 4500 Cl- E	
MB 500-601771/67	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-601771/68	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 602163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	SM 4500 F C	
500-199086-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-199086-6	MW-13	Total/NA	Water	SM 4500 F C	

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# QC Association Summary

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

Job ID: 500-199086-1

## General Chemistry (Continued)

### Analysis Batch: 602163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-7	MW-14	Total/NA	Water	SM 4500 F C	
500-199086-8	MW-20	Total/NA	Water	SM 4500 F C	
500-199086-9	MW-21	Total/NA	Water	SM 4500 F C	
MB 500-602163/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-602163/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

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

# QC Sample Results

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

Job ID: 500-199086-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-598871/1-A**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:01	1

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599211**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

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

**Lab Sample ID: MB 500-599713/1-A**  
**Matrix: Water**  
**Analysis Batch: 599943**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/21 08:28	05/19/21 16:54	1

**Lab Sample ID: LCS 500-599713/2-A**  
**Matrix: Water**  
**Analysis Batch: 599943**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.548		mg/L		110	80 - 120

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

**Lab Sample ID: MB 500-598871/1-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 16:42	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Barium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:42	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Boron	<0.050	^+	0.050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Calcium	<0.20		0.20		mg/L		05/14/21 08:28	05/17/21 16:42	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:42	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 16:42	1

**Lab Sample ID: MB 500-598871/1-A**  
**Matrix: Water**  
**Analysis Batch: 599734**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		05/14/21 08:28	05/18/21 12:39	1

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# QC Sample Results

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

Job ID: 500-199086-1

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

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599524**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	0.500	0.506		mg/L		101	80 - 120	
Arsenic	0.100	0.101		mg/L		101	80 - 120	
Barium	2.00	2.01		mg/L		100	80 - 120	
Beryllium	0.0500	0.0519		mg/L		104	80 - 120	
Cadmium	0.0500	0.0492		mg/L		98	80 - 120	
Calcium	10.0	9.28		mg/L		93	80 - 120	
Chromium	0.200	0.203		mg/L		102	80 - 120	
Cobalt	0.500	0.509		mg/L		102	80 - 120	
Lead	0.100	0.112		mg/L		112	80 - 120	
Molybdenum	1.00	0.976		mg/L		98	80 - 120	
Selenium	0.100	0.101		mg/L		101	80 - 120	
Thallium	0.100	0.112		mg/L		112	80 - 120	

**Lab Sample ID: LCS 500-598871/2-A**  
**Matrix: Water**  
**Analysis Batch: 599734**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 598871**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Boron	1.00	0.979		mg/L		98	80 - 120	

**Lab Sample ID: MB 500-599713/1-A**  
**Matrix: Water**  
**Analysis Batch: 599958**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 17:15			1
Arsenic	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15			1
Barium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 17:15			1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15			1
Boron	<0.050		0.050		mg/L		05/19/21 08:28	05/19/21 17:15			1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 17:15			1
Calcium	<0.20		0.20		mg/L		05/19/21 08:28	05/19/21 17:15			1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 17:15			1
Cobalt	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15			1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 17:15			1
Molybdenum	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 17:15			1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 17:15			1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 17:15			1

**Lab Sample ID: LCS 500-599713/2-A**  
**Matrix: Water**  
**Analysis Batch: 599958**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Antimony	0.500	0.508		mg/L		102	80 - 120	
Arsenic	0.100	0.0991		mg/L		99	80 - 120	
Barium	2.00	2.06		mg/L		103	80 - 120	
Beryllium	0.0500	0.0483		mg/L		97	80 - 120	
Boron	1.00	1.03		mg/L		103	80 - 120	

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# QC Sample Results

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

Job ID: 500-199086-1

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

**Lab Sample ID: LCS 500-599713/2-A**  
**Matrix: Water**  
**Analysis Batch: 599958**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 599713**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Calcium	10.0	8.88		mg/L		89	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.491		mg/L		98	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Molybdenum	1.00	0.944		mg/L		94	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-599727/12-A**  
**Matrix: Water**  
**Analysis Batch: 599974**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 599727**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 07:23	1

**Lab Sample ID: LCS 500-599727/13-A**  
**Matrix: Water**  
**Analysis Batch: 599974**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 599727**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00197		mg/L		98	80 - 120

**Lab Sample ID: 500-199086-5 MS**  
**Matrix: Water**  
**Analysis Batch: 599974**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 599727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000991		mg/L		99	75 - 125

**Lab Sample ID: 500-199086-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 599974**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 599727**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	2	20

**Lab Sample ID: 500-199086-5 DU**  
**Matrix: Water**  
**Analysis Batch: 599974**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 599727**

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

# QC Sample Results

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

Job ID: 500-199086-1

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

**Lab Sample ID: MB 500-599402/1**  
**Matrix: Water**  
**Analysis Batch: 599402**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/17/21 23:50	1

**Lab Sample ID: LCS 500-599402/2**  
**Matrix: Water**  
**Analysis Batch: 599402**

**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 500-600380/1**  
**Matrix: Water**  
**Analysis Batch: 600380**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/22/21 21:34	1

**Lab Sample ID: LCS 500-600380/2**  
**Matrix: Water**  
**Analysis Batch: 600380**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

**Lab Sample ID: 500-199086-7 MS**  
**Matrix: Water**  
**Analysis Batch: 600380**

**Client Sample ID: MW-14**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	1700		250	1960	4	mg/L		107	75 - 125

**Lab Sample ID: 500-199086-7 DU**  
**Matrix: Water**  
**Analysis Batch: 600380**

**Client Sample ID: MW-14**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1700		1710		mg/L		0.7	5

**Lab Sample ID: 500-199086-8 DU**  
**Matrix: Water**  
**Analysis Batch: 600380**

**Client Sample ID: MW-20**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	2200		2290		mg/L		2	5

# QC Sample Results

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

Job ID: 500-199086-1

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

Lab Sample ID: MB 500-601771/67  
Matrix: Water  
Analysis Batch: 601771

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/01/21 15:49	1

Lab Sample ID: LCS 500-601771/68  
Matrix: Water  
Analysis Batch: 601771

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	21.6		mg/L		108	85 - 115

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-602163/3  
Matrix: Water  
Analysis Batch: 602163

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/03/21 08:48	1

Lab Sample ID: LCS 500-602163/4  
Matrix: Water  
Analysis Batch: 602163

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	11.2		mg/L		112	80 - 120

## Method: SM 4500 H+ B - pH

Lab Sample ID: 500-199086-1 DU  
Matrix: Water  
Analysis Batch: 600507

Client Sample ID: MW-17  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.7		SU		0	

Lab Sample ID: 500-199086-5 DU  
Matrix: Water  
Analysis Batch: 600507

Client Sample ID: Duplicate  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.7		SU		0.1	

Lab Sample ID: 500-199086-6 DU  
Matrix: Water  
Analysis Batch: 600507

Client Sample ID: MW-13  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.7	HF	7.7		SU		0.3	

# QC Sample Results

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

Job ID: 500-199086-1

## Method: SM 4500 H+ B - pH (Continued)

**Lab Sample ID: 500-199086-7 DU**  
**Matrix: Water**  
**Analysis Batch: 600507**

**Client Sample ID: MW-14**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.2	HF	7.2		SU		0.3	

**Lab Sample ID: 500-199086-8 DU**  
**Matrix: Water**  
**Analysis Batch: 600507**

**Client Sample ID: MW-20**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.9	HF	6.9		SU		0.1	

**Lab Sample ID: 500-199086-9 DU**  
**Matrix: Water**  
**Analysis Batch: 600507**

**Client Sample ID: MW-21**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.7	HF	6.7		SU		0.1	

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

**Lab Sample ID: MB 500-601767/47**  
**Matrix: Water**  
**Analysis Batch: 601767**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/01/21 14:17	1

**Lab Sample ID: LCS 500-601767/48**  
**Matrix: Water**  
**Analysis Batch: 601767**

**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	23.2		mg/L		116	80 - 120

# Lab Chronicle

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

Job ID: 500-199086-1

**Client Sample ID: MW-17**  
**Date Collected: 05/12/21 09:04**  
**Date Received: 05/13/21 13:40**

**Lab Sample ID: 500-199086-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:26	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	599734	05/18/21 13:31	FXG	TAL CHI
Total/NA	Prep	7470A			599727	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:46	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599402	05/18/21 00:41	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	602163	06/03/21 09:41	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	600507	05/24/21 13:43 (Start) 05/24/21 13:46 (End)	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:50	ACG1	TAL CHI

**Client Sample ID: MW-14**  
**Date Collected: 05/12/21 11:38**  
**Date Received: 05/13/21 13:40**

**Lab Sample ID: 500-199086-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:30	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	599734	05/18/21 13:34	FXG	TAL CHI
Total/NA	Prep	7470A			599727	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:48	MJG	TAL CHI

**Client Sample ID: MW-21**  
**Date Collected: 05/12/21 13:45**  
**Date Received: 05/13/21 13:40**

**Lab Sample ID: 500-199086-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:33	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 13:38	FXG	TAL CHI
Total/NA	Prep	7470A			599727	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:50	MJG	TAL CHI

# Lab Chronicle

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

Job ID: 500-199086-1

**Client Sample ID: MW-20**  
**Date Collected: 05/12/21 12:46**  
**Date Received: 05/13/21 13:40**

**Lab Sample ID: 500-199086-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:44	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 13:41	FXG	TAL CHI
Total/NA	Prep	7470A			599727	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:52	MJG	TAL CHI

**Client Sample ID: Duplicate**  
**Date Collected: 05/12/21 00:00**  
**Date Received: 05/13/21 13:40**

**Lab Sample ID: 500-199086-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:48	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	599734	05/18/21 13:45	FXG	TAL CHI
Total/NA	Prep	7470A			599727	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:54	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599402	05/18/21 00:44	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	602163	06/03/21 09:44	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	600507	(Start) 05/24/21 13:49 (End) 05/24/21 13:52	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:50	ACG1	TAL CHI

**Client Sample ID: MW-13**  
**Date Collected: 05/13/21 09:46**  
**Date Received: 05/14/21 09:25**

**Lab Sample ID: 500-199086-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599943	05/19/21 17:16	JJB	TAL CHI
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599958	05/19/21 17:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	600214	05/20/21 19:08	FXG	TAL CHI
Total/NA	Prep	7470A			599727	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 09:07	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599402	05/18/21 00:46	CLB	TAL CHI

# Lab Chronicle

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

Job ID: 500-199086-1

**Client Sample ID: MW-13**  
**Date Collected: 05/13/21 09:46**  
**Date Received: 05/14/21 09:25**

**Lab Sample ID: 500-199086-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		5	601771	06/01/21 15:53	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	602163	06/03/21 09:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	600507	(Start) 05/24/21 13:57 (End) 05/24/21 14:00	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	601767	06/01/21 14:58	ACG1	TAL CHI

**Client Sample ID: MW-14**  
**Date Collected: 05/19/21 10:55**  
**Date Received: 05/20/21 13:35**

**Lab Sample ID: 500-199086-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	600380	05/22/21 21:39	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	601771	06/01/21 15:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	602163	06/03/21 09:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	600507	(Start) 05/24/21 14:03 (End) 05/24/21 14:06	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:52	ACG1	TAL CHI

**Client Sample ID: MW-20**  
**Date Collected: 05/19/21 11:15**  
**Date Received: 05/20/21 13:35**

**Lab Sample ID: 500-199086-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	600380	05/22/21 21:46	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	601771	06/01/21 15:56	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	602163	06/03/21 09:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	600507	(Start) 05/24/21 14:09 (End) 05/24/21 14:12	SMO	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:58	ACG1	TAL CHI

**Client Sample ID: MW-21**  
**Date Collected: 05/19/21 11:40**  
**Date Received: 05/20/21 13:35**

**Lab Sample ID: 500-199086-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	600380	05/22/21 21:52	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	601771	06/01/21 15:53	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	602163	06/03/21 09:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 H+ B		1	600507	(Start) 05/24/21 14:15 (End) 05/24/21 14:18	SMO	TAL CHI



# Lab Chronicle

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

Job ID: 500-199086-1

**Client Sample ID: MW-21**  
**Date Collected: 05/19/21 11:40**  
**Date Received: 05/20/21 13:35**

**Lab Sample ID: 500-199086-9**  
**Matrix: Water**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:48	ACG1	TAL CHI

**Laboratory References:**

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

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# Accreditation/Certification Summary

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

Job ID: 500-199086-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <i>Michael Reiss</i>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-91214-40685.1																			
Client Contact: Mitchel Dolan		Phone: <i>630-602-7240</i>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin: <i>IL</i>		Page: Page 1 of 1																			
Company: KPRG and Associates, Inc.		PWSID:		<b>Analysis Requested</b>						Job #: <i>500-199086</i>																	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:		<table border="1"> <tr> <td>Field Filtered Sample (Yes or No)</td> <td>Perform MS/MSD (Yes or No)</td> <td>2540C, 4500_F_C, SM4500_CLE, SM4500_H+, SM4500_SO4_E</td> <td>903.0 - Radium 226</td> <td>904.0 - Radium 228</td> <td>Ra226Ra228_GFPC - Combined</td> <td>6010C, 6020A, 7470A</td> <td>Total Number of containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500_F_C, SM4500_CLE, SM4500_H+, SM4500_SO4_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFPC - Combined	6010C, 6020A, 7470A	Total Number of containers									Preservation Codes:	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, 4500_F_C, SM4500_CLE, SM4500_H+, SM4500_SO4_E	903.0 - Radium 226							904.0 - Radium 228	Ra226Ra228_GFPC - Combined	6010C, 6020A, 7470A	Total Number of containers														
City: Brookfield		TAT Requested (days):								A - HCL		M - Hexane															
State, Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								B - NaOH		N - None															
Phone: 262-781-0475(Tel)		PO #: 4502051132		C - Zn Acetate		O - AsNaO2																					
Email: mitcheld@kprginc.com		WO #:		D - Nitric Acid		P - Na2O4S																					
Project Name: Powerton CCR MCB		Project #: 50018578		E - NaHSO4		Q - Na2SO3																					
Site: <i>Illinois</i>		SSOW#:		F - MeOH		R - Na2S2O3																					
				G - Amchlor		S - H2SO4																					
				H - Ascorbic Acid		T - TSP Dodecahydrate																					
				I - Ice		U - Acetone																					
				J - DI Water		V - MCAA																					
				K - EDTA		W - pH 4-5																					
				L - EDA		Z - other (specify)																					
				Other:																							

**Sample Identification**		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Special Instructions/Note:	
						Preservation Code:					
*6* MW-13		*5/13*		*9:46*		*G*		*Water*		*N X X X X X*	
~~MW-17~~								*Water*			
~~Duplicate~~								*Water*			
~~MW-14~~								*Water*			
~~MW-20~~								*Water*			
~~MW-21~~								*Water*			

<b>Possible Hazard Identification</b>				<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: <i>Michael Reiss</i>		Date/Time: <i>5/13 14:45</i>		Company: <i>KPRG</i>		Received by: <i>Shin Scott</i>	
Relinquished by:		Date/Time:		Company:		Date/Time: <i>5/14/21 09:25</i>	
Relinquished by:		Date/Time:		Company:		Date/Time:	

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <i>1588773, 1588772, 1588770, 1588771</i>		Cooler Temperature(s) °C and Other Remarks: <i>11.0, 4.1, 0.3</i>	
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ORIGIN ID:PIAA (000) 000-0000  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

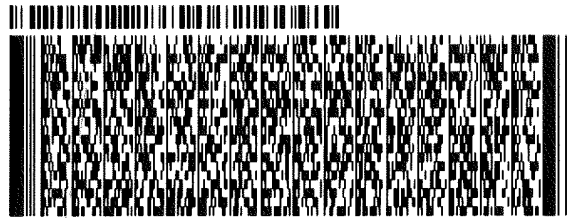
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BILL THIRD PARTY

Part # 116296 48344668  
6/13/21 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(999) 999-9999 REF:  
YNU: DEPT:  
PO:



**THU - 20 MAY 4:30P**  
**STANDARD OVERNIGHT**

TRK# 7873 4929 7112  
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**UF JOTA**

**60484**  
**IL-US ORD**



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500-199086 Wayt

ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

SHIP DATE: 12MAY21  
ACTWGT: 41.85 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x19x13 IN

WESTMONT, IL 60559  
UNITED STATES US

BILL THIRD PARTY

TO TEST AMERICA  
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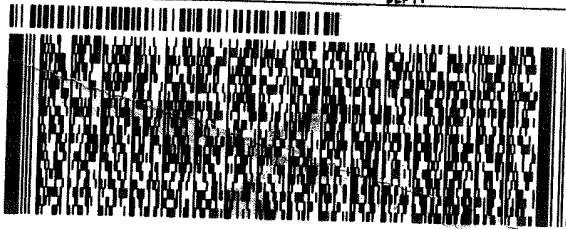
UNIVERSITY PARK IL 60484

(708) 534-5200

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REF:

DEPT:



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0201

THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

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ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

SHIP DATE: 12MAY21  
ACTWGT: 61.90 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x19x13 IN

WESTMONT, IL 60559  
UNITED STATES US

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

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UNIVERSITY PARK IL 60484

(708) 534-5200

INU:

REF:

DEPT:



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TRK# 7870 9102 8774  
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THU - 13 MAY 4:30P  
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Part # 156297435 PRTKAWZ Exp 07/21

ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 12MAY21  
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BILL THIRD PARTY

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EXP 07/21

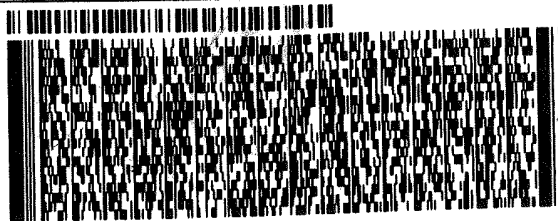
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2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-6200

REF:

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TRK# 7870 9119 3186  
0201

THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

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500-199086 Wayb

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13MAY21  
ACTWGT: 48.00 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4862 FROM WAYB ROWS 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000

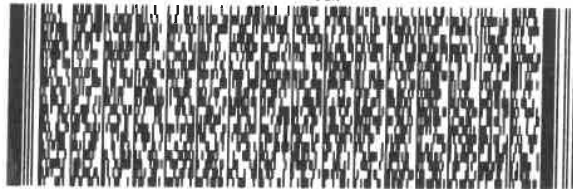
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**FedEx**  
Express



AN 1015B011281127

1 of 4

TRK# 7871 3427 2051

## MASTER ##

**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**XH JOTA**

**60484**

IL-US ORD



2062  
05.14

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13MAY21  
ACTWGT: 52.50 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4862 FROM WAYB ROWS 03/22

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**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000

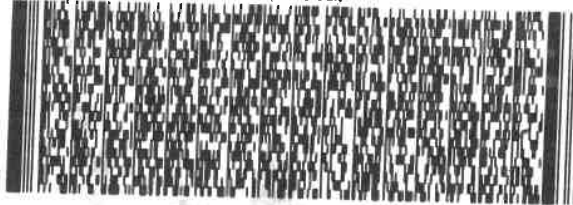
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**FedEx**  
Express



AN 1015B011281127

2 of 4

MPS# 7871 3427 2062

Mstr# 7871 3427 2051

0201

**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**XH JOTA**

**60484**

IL-US ORD



RT **519**  
5 10:30 A  
2084  
05.14

ORIGIN ID:PIAA (000) 00  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

DIMS: 24x18x12 IN  
BILL THIRD PARTY

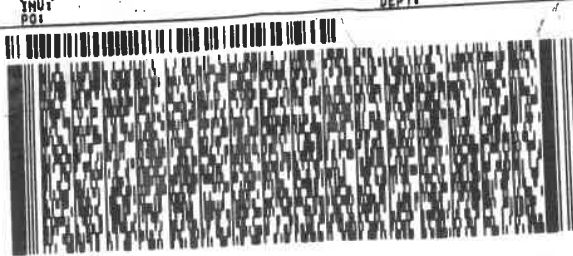
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2417 BOND ST**

**UNIVERSITY PARK IL 60484**

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**FRI - 14 MAY 10:30A  
PRIORITY OVERNIGHT**

4 of 4  
MPS# **7871 3427 2084**  
0263  
Metr# 7871 3427 2051

0201

**XH JOTA**

**60484  
IL-US ORD**



Part # 156295-4534-1000-03/22

14 2073  
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ORIGIN ID:PIAA (000) 000-0000  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13/07  
ACTWTG: 54.00 LB  
CAD: 6994779/95FE2201  
DIMS: 24x18x12 IN  
BILL THIRD PARTY

TO **SAMPLE RECEIVING  
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2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(000) 000-0000

REF:

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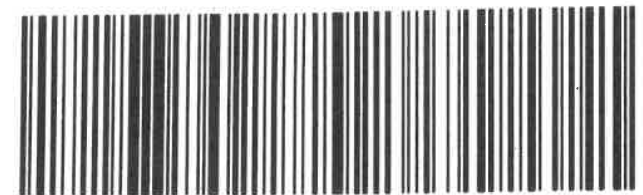
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3 of 4  
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0263  
Metr# 7871 3427 2051

0201

**XH JOTA**

**60484  
IL-US ORD**



Part # 156295-4534-1000-03/22







# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199086-1

**Login Number: 199086**

**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	4.1,5.3,1.1,1.1,0.4,1.1,0.3,0.0
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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



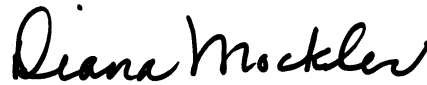
## ANALYTICAL REPORT

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

Laboratory Job ID: 500-199086-2  
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:  
6/21/2021 5:36:19 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: Powerton CCR MCB

Job ID: 500-199086-2

## Job ID: 500-199086-2

### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

#### Job Narrative 500-199086-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/13/2021 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 0.0° C, 0.3° C, 0.4° C, 1.1° C, 1.1° C, 1.1° C, 4.1° C and 5.3° C.

#### Receipt Exceptions

Didn't receive an unpreserved bottle for samples 2-4.

#### RAD

Method 903.0: Radium-226 Batch 511208

The method blank (MB) has Radium-226 activity above the MDC and RL. The following associated samples are non-detect for the analyte, therefore, re-analysis is not required. The data have been reported. (MB 160-511208/25-A)

Method 903.0: Radium-226 Batch 511208

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-17 (500-199086-1), MW-14 (500-199086-2), MW-21 (500-199086-3), MW-20 (500-199086-4), Duplicate (500-199086-5), MW-13 (500-199086-6), (LCS 160-511208/1-A), (MB 160-511208/25-A), (480-184598-E-5-A), (480-184598-E-5-B MS), (480-184598-E-5-C MSD) and (500-199086-E-1-A DU)

Method 904.0: Radium-228 prep batch 160-511209:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-17 (500-199086-1), MW-14 (500-199086-2), MW-21 (500-199086-3), MW-20 (500-199086-4), Duplicate (500-199086-5), MW-13 (500-199086-6), (LCS 160-511209/1-A), (MB 160-511209/25-A), (480-184598-E-5-D), (480-184598-E-5-E MS), (480-184598-E-5-F MSD) and (500-199086-E-1-B DU)

Method PrecSep\_0:

Method PrecSep\_0: Ra-228 Batch 160-511209:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-21 (500-199086-3). This is an indicator of matrix interference.

Method PrecSep-21:

Method PrecSep-21: Ra-226 Batch 160-511208:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-21 (500-199086-3). This is an indicator of matrix interference.

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: Powerton CCR MCB

Job ID: 500-199086-2

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: Powerton CCR MCB

Job ID: 500-199086-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-199086-1	MW-17	Water	05/12/21 09:04	05/13/21 13:40	
500-199086-2	MW-14	Water	05/12/21 11:38	05/13/21 13:40	
500-199086-3	MW-21	Water	05/12/21 13:45	05/13/21 13:40	
500-199086-4	MW-20	Water	05/12/21 12:46	05/13/21 13:40	
500-199086-5	Duplicate	Water	05/12/21 00:00	05/13/21 13:40	
500-199086-6	MW-13	Water	05/13/21 09:46	05/14/21 09:25	

# Client Sample Results

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

Job ID: 500-199086-2

**Client Sample ID: MW-17**

**Lab Sample ID: 500-199086-1**

Date Collected: 05/12/21 09:04

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.198	U	0.0929	0.0929	1.00	0.198	pCi/L	05/23/21 16:25	06/18/21 18:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					05/23/21 16:25	06/18/21 18:54	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	<0.500	U			1.00	0.500	pCi/L	05/23/21 17:00	06/16/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier								05/23/21 17:00	06/16/21 09:41	1
Y Carrier								05/23/21 17:00	06/16/21 09:41	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	<0.398	U	0.261	0.261	5.00	0.398	pCi/L		06/21/21 16:25	1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-199086-2**

Date Collected: 05/12/21 11:38

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.339	U	0.210	0.210	1.00	0.339	pCi/L	05/23/21 16:25	06/17/21 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					05/23/21 16:25	06/17/21 11:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.500	U			1.00	0.500	pCi/L	05/23/21 17:00	06/16/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier								05/23/21 17:00	06/16/21 09:41	1
Y Carrier								05/23/21 17:00	06/16/21 09:41	1

# Client Sample Results

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

Job ID: 500-199086-2

**Client Sample ID: MW-14**  
Date Collected: 05/12/21 11:38  
Date Received: 05/13/21 13:40

**Lab Sample ID: 500-199086-2**  
Matrix: Water

**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	<0.430	U	0.314	0.314	5.00	0.430	pCi/L		06/21/21 16:25	1

**Client Sample ID: MW-21**  
Date Collected: 05/12/21 13:45  
Date Received: 05/13/21 13:40

**Lab Sample ID: 500-199086-3**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.338	U	0.227	0.229	1.00	0.338	pCi/L	05/23/21 16:25	06/17/21 11:23	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	70.3		40 - 110					05/23/21 16:25	06/17/21 11:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.500	U			1.00	0.500	pCi/L	05/23/21 17:00	06/16/21 09:41	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier								05/23/21 17:00	06/16/21 09:41	1
Y Carrier								05/23/21 17:00	06/16/21 09:41	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	0.708		0.384	0.388	5.00	0.485	pCi/L		06/21/21 16:25	1

**Client Sample ID: MW-20**  
Date Collected: 05/12/21 12:46  
Date Received: 05/13/21 13:40

**Lab Sample ID: 500-199086-4**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.446	U	0.304	0.306	1.00	0.446	pCi/L	05/23/21 16:25	06/17/21 11:23	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	58.3		40 - 110					05/23/21 16:25	06/17/21 11:23	1

# Client Sample Results

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

Job ID: 500-199086-2

**Client Sample ID: MW-20**

**Lab Sample ID: 500-199086-4**

Date Collected: 05/12/21 12:46

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.500	U			1.00	0.500	pCi/L	05/23/21 17:00	06/16/21 09:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier								05/23/21 17:00	06/16/21 09:42	1
Y Carrier								05/23/21 17:00	06/16/21 09:42	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	<0.790	U	0.554	0.556	5.00	0.790	pCi/L		06/21/21 16:25	1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-199086-5**

Date Collected: 05/12/21 00:00

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.303	U	0.185	0.186	1.00	0.303	pCi/L	05/23/21 16:25	06/17/21 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.0		40 - 110					05/23/21 16:25	06/17/21 11:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.500	U			1.00	0.500	pCi/L	05/23/21 17:00	06/16/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier								05/23/21 17:00	06/16/21 09:41	1
Y Carrier								05/23/21 17:00	06/16/21 09:41	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	<0.481	U	0.333	0.334	5.00	0.481	pCi/L		06/21/21 16:25	1

# Client Sample Results

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

Job ID: 500-199086-2

**Client Sample ID: MW-13**

**Lab Sample ID: 500-199086-6**

Date Collected: 05/13/21 09:46

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.308		0.215	0.217	1.00	0.307	pCi/L	05/23/21 16:25	06/17/21 11:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					05/23/21 16:25	06/17/21 11:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.531		0.310	0.314	1.00	0.466	pCi/L	05/23/21 17:00	06/16/21 09:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.8		40 - 110					05/23/21 17:00	06/16/21 09:56	1
Y Carrier	86.7		40 - 110					05/23/21 17:00	06/16/21 09:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.840		0.377	0.382	5.00	0.466	pCi/L		06/21/21 16:25	1

# Definitions/Glossary

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

Job ID: 500-199086-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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: Powerton CCR MCB

Job ID: 500-199086-2

## Rad

### Prep Batch: 511208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	PrecSep-21	
500-199086-2	MW-14	Total/NA	Water	PrecSep-21	
500-199086-3	MW-21	Total/NA	Water	PrecSep-21	
500-199086-4	MW-20	Total/NA	Water	PrecSep-21	
500-199086-5	Duplicate	Total/NA	Water	PrecSep-21	
500-199086-6	MW-13	Total/NA	Water	PrecSep-21	
MB 160-511208/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-511208/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-199086-1 DU	MW-17	Total/NA	Water	PrecSep-21	

### Prep Batch: 511209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199086-1	MW-17	Total/NA	Water	PrecSep_0	
500-199086-2	MW-14	Total/NA	Water	PrecSep_0	
500-199086-3	MW-21	Total/NA	Water	PrecSep_0	
500-199086-4	MW-20	Total/NA	Water	PrecSep_0	
500-199086-5	Duplicate	Total/NA	Water	PrecSep_0	
500-199086-6	MW-13	Total/NA	Water	PrecSep_0	
MB 160-511209/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-511209/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-199086-1 DU	MW-17	Total/NA	Water	PrecSep_0	



# QC Sample Results

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

Job ID: 500-199086-2

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

**Lab Sample ID: MB 160-511208/25-A**  
**Matrix: Water**  
**Analysis Batch: 514718**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 511208**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	3.243		0.524	0.600	1.00	0.290	pCi/L	05/23/21 16:25	06/17/21 11:59	1
Carrier	MB	MB	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	70.0									
								Prepared	Analyzed	Dil Fac
								05/23/21 16:25	06/17/21 11:59	1

**Lab Sample ID: LCS 160-511208/1-A**  
**Matrix: Water**  
**Analysis Batch: 514718**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 511208**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.56		1.32	1.00	0.350	pCi/L	93	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	76.0								

**Lab Sample ID: 500-199086-1 DU**  
**Matrix: Water**  
**Analysis Batch: 514753**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**  
**Prep Batch: 511208**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	<0.198	U	<0.248	U	0.111	1.00	0.248	pCi/L	0.26	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	79.0									

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

**Lab Sample ID: MB 160-511209/25-A**  
**Matrix: Water**  
**Analysis Batch: 514502**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 511209**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.546	U	0.343	0.345	1.00	0.546	pCi/L	05/23/21 17:00	06/16/21 09:56	1
Carrier	MB	MB	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	70.0									
Y Carrier	86.7		40 - 110							
								Prepared	Analyzed	Dil Fac
								05/23/21 17:00	06/16/21 09:56	1
								05/23/21 17:00	06/16/21 09:56	1

# QC Sample Results

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

Job ID: 500-199086-2

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

**Lab Sample ID: LCS 160-511209/1-A**  
**Matrix: Water**  
**Analysis Batch: 514499**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 511209**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	10200	11.34	*		1.00	0.500	pCi/L	0.1	75 - 125	

**Lab Sample ID: 500-199086-1 DU**  
**Matrix: Water**  
**Analysis Batch: 514500**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**  
**Prep Batch: 511209**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	<0.500	U	<0.500	U		1.00	0.500	pCi/L	0.22	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier			
Y Carrier			







ORIGIN ID:PIAA (000) 000-0000  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

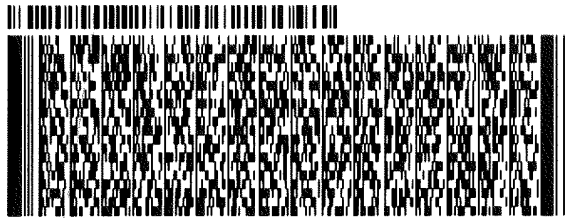
SHIP DATE: 19MAY21  
ACTWGT: 24.00 LB  
CAD: 6994779/SSFE2201  
DIMS: 16x12x10 IN  
BILL THIRD PARTY

Part # 116296 48646688  
6/13/21 11:55:03 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(999) 999-9999 REF:  
YNU: DEPT:  
PG:



**THU - 20 MAY 4:30P**  
**STANDARD OVERNIGHT**

TRK# 7873 4929 7112  
0201

**UF JOTA**

**60484**  
**IL-US ORD**



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500-199086 Wayt

ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

SHIP DATE: 12MAY21  
ACTWGT: 41.85 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x19x13 IN

WESTMONT, IL 60559  
UNITED STATES US

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

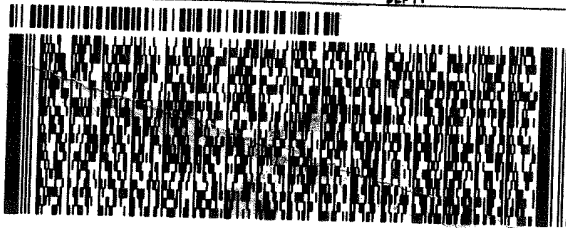
UNIVERSITY PARK IL 60484

(708) 534-5200

INVT:

REF:

DEPT:



FedEx  
Express



AN101E5912611Z

TRK# 7870 9114 7614  
0201

THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

AHS  
60484

IL-US ORD



ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

SHIP DATE: 12MAY21  
ACTWGT: 61.90 LB  
CAD: 6994780/SSFE2201  
DIMS: 23x19x13 IN

WESTMONT, IL 60559  
UNITED STATES US

BILL THIRD PARTY

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

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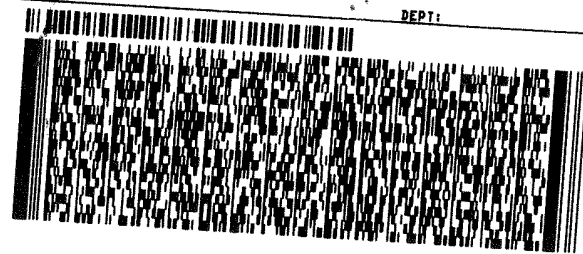
UNIVERSITY PARK IL 60484

(708) 534-5200

INVT:

REF:

DEPT:



FedEx  
Express



AN101E5912611Z

TRK# 7870 9102 8774  
0201

THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

60484

IL-US ORD



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Part # 156297433 PRTK156555  
EXP 07/21

ORIGIN ID:PIAA (630) 602-7240  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 12MAY21  
ACTWTG: 82.35 LB  
CAD: 8994780/SSFE2201  
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 156297/383  
EXP 07/21

TO TEST AMERICA  
TEST AMERICA  
2417 BOND ST

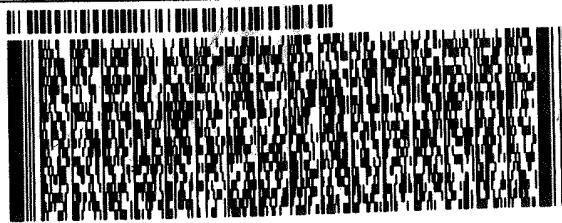
UNIVERSITY PARK IL 60484

(708) 534-6200

REF:

THU:

DEPT:



FedEx  
Express



AN10135012611Z

TRK# 7870 9119 3186  
0201

THU - 13 MAY 4:30P  
STANDARD OVERNIGHT

UF JOTA

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IL-US ORD



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10-02





500-199086 Wayb

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13MAY21  
ACTWGT: 48.00 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4862 FROM WAYB ROWS 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

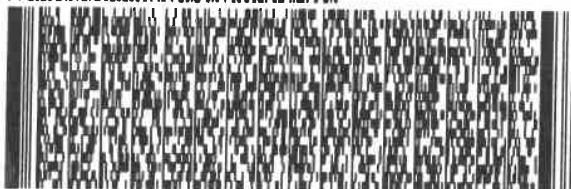
(000) 000-0000

REF:

INV:

PG1

DEPT:



FedEx  
Express



AN 1015201281127

1 of 4

TRK# 7871 3427 2051

## MASTER ##

**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**XH JOTA**

**60484**

IL-US ORD



2062  
05.14

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 13MAY21  
ACTWGT: 52.50 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4862 FROM WAYB ROWS 03/22

TO **SAMPLE RECEIVING:**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

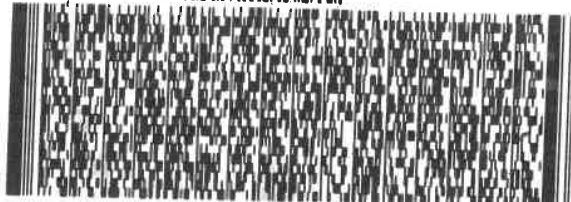
(000) 000-0000

REF:

INV:

PG1

DEPT:



FedEx  
Express



AN 1015201281127

2 of 4

MPS# 7871 3427 2062

Mstr# 7871 3427 2051

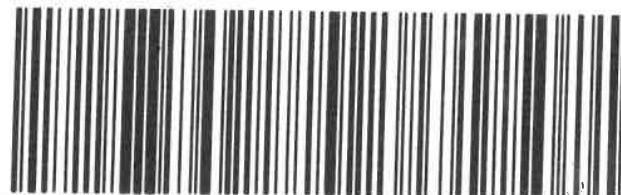
0201

**FRI - 14 MAY 10:30A**  
**PRIORITY OVERNIGHT**

**XH JOTA**

**60484**

IL-US ORD





# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler: Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-148558-1	
Shipping/Receiving		Phone:		State of Origin: Illinois		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@Eurofinset.com		Accreditations Required (See note): NELAP - Illinois		Job #: 500-199086-1	
Address: 13715 Rider Trail North,		Due Date Requested: 6/2/2021		Analysis Requested		Preservation Codes:	
City: Earth City		TAT Requested (days):		Field Filtered Sample (Yes or No)		A - HCL	
State, Zip: MO, 63045		PO #:		Perform MS/MSD (Yes or No)		M - Hexane	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		903.0/PreSep_21 Standard Target List		N - None	
Email:		Project #:		904.0/PreSep_0 Standard Target List		O - AsNaO2	
Project Name: Powerton CCR MCB		SSOW#:		R226Ra228, GPC		P - Na2O4S	
Site:		Sample Date		Matrix (Water, Sealed, On-site, B1-Tissue, A-AE)		Q - NaHSO4	
Sample Identification - Client ID (Lab ID)		Sample Time		Preservation Code:		R - Na2SO3	
MW-17 (500-199086-1)	5/12/21	09:04 Central	Water	X	X	S - H2SO4	
MW-14 (500-199086-2)	5/12/21	11:38 Central	Water	X	X	T - TSP Dodecahydrate	
MW-21 (500-199086-3)	5/12/21	13:45 Central	Water	X	X	U - Acetone	
MW-20 (500-199086-4)	5/12/21	12:46 Central	Water	X	X	V - MCAA	
Duplicate (500-199086-5)	5/12/21	Central	Water	X	X	W - pH 4-5	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Z - other (specify)	
MW-17 (500-199086-1)		3		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs			
MW-14 (500-199086-2)		3		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs			
MW-21 (500-199086-3)		3		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs			
MW-20 (500-199086-4)		3		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs			
Duplicate (500-199086-5)		3		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs			

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

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *R. L. Dingo* Date: 5/13/21  
 Relinquished by: *1600* Date: \_\_\_\_\_  
 Relinquished by: **FED EX** Date: \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Received by: *Michelle Pennington* Date/Time: MAY 14 2021 10:10  
 Company: **FED EX**  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Company: \_\_\_\_\_

Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_







# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199086-2

**Login Number: 199086**

**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	4.1,5.3,1.1,1.1,0.4,1.1,0.3,0.0
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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199086-2

**Login Number: 199086**

**List Number: 2**

**Creator: Worthington, Sierra M**

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

**List Creation: 05/14/21 03:30 PM**

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



## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199086-2

**Login Number: 199086**

**List Number: 3**

**Creator: Mazariegos, Leonel A**

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

**List Creation: 05/15/21 01:40 PM**

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

# Lab Chronicle

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

Job ID: 500-199086-2

**Client Sample ID: MW-17**

**Lab Sample ID: 500-199086-1**

Date Collected: 05/12/21 09:04

Matrix: Water

Date Received: 05/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511208	05/23/21 16:25	HRT	TAL SL
Total/NA	Analysis	903.0		1	514753	06/18/21 18:54	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511209	05/23/21 17:00	HRT	TAL SL
Total/NA	Analysis	904.0		1	514500	06/16/21 09:41	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515239	06/21/21 16:25	SCB	TAL SL

**Client Sample ID: MW-14**

**Lab Sample ID: 500-199086-2**

Date Collected: 05/12/21 11:38

Matrix: Water

Date Received: 05/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511208	05/23/21 16:25	HRT	TAL SL
Total/NA	Analysis	903.0		1	514718	06/17/21 11:23	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511209	05/23/21 17:00	HRT	TAL SL
Total/NA	Analysis	904.0		1	514500	06/16/21 09:41	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515239	06/21/21 16:25	SCB	TAL SL

**Client Sample ID: MW-21**

**Lab Sample ID: 500-199086-3**

Date Collected: 05/12/21 13:45

Matrix: Water

Date Received: 05/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511208	05/23/21 16:25	HRT	TAL SL
Total/NA	Analysis	903.0		1	514718	06/17/21 11:23	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511209	05/23/21 17:00	HRT	TAL SL
Total/NA	Analysis	904.0		1	514500	06/16/21 09:41	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515239	06/21/21 16:25	SCB	TAL SL

**Client Sample ID: MW-20**

**Lab Sample ID: 500-199086-4**

Date Collected: 05/12/21 12:46

Matrix: Water

Date Received: 05/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511208	05/23/21 16:25	HRT	TAL SL
Total/NA	Analysis	903.0		1	514718	06/17/21 11:23	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511209	05/23/21 17:00	HRT	TAL SL
Total/NA	Analysis	904.0		1	514500	06/16/21 09:42	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515239	06/21/21 16:25	SCB	TAL SL



# Lab Chronicle

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

Job ID: 500-199086-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-199086-5**

**Date Collected: 05/12/21 00:00**

**Matrix: Water**

**Date Received: 05/13/21 13:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511208	05/23/21 16:25	HRT	TAL SL
Total/NA	Analysis	903.0		1	514718	06/17/21 11:23	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511209	05/23/21 17:00	HRT	TAL SL
Total/NA	Analysis	904.0		1	514500	06/16/21 09:41	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515239	06/21/21 16:25	SCB	TAL SL

**Client Sample ID: MW-13**

**Lab Sample ID: 500-199086-6**

**Date Collected: 05/13/21 09:46**

**Matrix: Water**

**Date Received: 05/14/21 09:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			511208	05/23/21 16:25	HRT	TAL SL
Total/NA	Analysis	903.0		1	514718	06/17/21 11:23	ANW	TAL SL
Total/NA	Prep	PrecSep_0			511209	05/23/21 17:00	HRT	TAL SL
Total/NA	Analysis	904.0		1	514502	06/16/21 09:56	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	515239	06/21/21 16:25	SCB	TAL SL

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-199086-2

## Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

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# Tracer/Carrier Summary

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

Job ID: 500-199086-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-199086-1	MW-17	82.0	
500-199086-1 DU	MW-17	79.0	
500-199086-2	MW-14	72.1	
500-199086-3	MW-21	70.3	
500-199086-4	MW-20	58.3	
500-199086-5	Duplicate	76.0	
500-199086-6	MW-13	74.8	
LCS 160-511208/1-A	Lab Control Sample	76.0	
MB 160-511208/25-A	Method Blank	70.0	
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba	Y
500-199086-1	MW-17		
500-199086-1 DU	MW-17		
500-199086-2	MW-14		
500-199086-3	MW-21		
500-199086-4	MW-20		
500-199086-5	Duplicate		
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-199086-6	MW-13	74.8	86.7
MB 160-511209/25-A	Method Blank	70.0	86.7
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-200232-1  
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:  
6/25/2021 5:56:31 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: Powerton CCR MCB

Job ID: 500-200232-1

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**Job ID: 500-200232-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-200232-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/4/2021 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 5.6° C.

**Metals**

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

**General Chemistry**

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

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# Method Summary

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

Job ID: 500-200232-1

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

**Protocol References:**

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

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

**Laboratory References:**

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

# Sample Summary

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

Job ID: 500-200232-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-200232-1	MW-13	Water	06/03/21 10:20	06/04/21 13:55	
500-200232-2	MW-17	Water	06/03/21 10:57	06/04/21 13:55	
500-200232-3	MW-14	Water	06/03/21 11:23	06/04/21 13:55	
500-200232-4	MW-20	Water	06/03/21 12:03	06/04/21 13:55	
500-200232-5	MW-21	Water	06/03/21 12:46	06/04/21 13:55	
500-200232-6	Duplicate	Water	06/03/21 00:00	06/04/21 13:55	



# Client Sample Results

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

Job ID: 500-200232-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-200232-1**

Date Collected: 06/03/21 10:20

Matrix: Water

Date Received: 06/04/21 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/09/21 08:27	06/09/21 18:35	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		06/09/21 08:27	06/09/21 18:58	1
<b>Arsenic</b>	<b>0.025</b>		0.0010		mg/L		06/09/21 08:27	06/09/21 18:58	1
<b>Barium</b>	<b>0.22</b>		0.0025		mg/L		06/09/21 08:27	06/10/21 13:46	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 18:58	1
<b>Boron</b>	<b>3.2</b>		0.50		mg/L		06/09/21 08:27	06/10/21 12:23	10
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 18:58	1
<b>Calcium</b>	<b>370</b>		2.0		mg/L		06/09/21 08:27	06/10/21 12:23	10
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 18:58	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 18:58	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 18:58	1
<b>Molybdenum</b>	<b>0.026</b>		0.0050		mg/L		06/09/21 08:27	06/09/21 18:58	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:27	06/09/21 18:58	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:27	06/09/21 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 08:26	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>2600</b>		10		mg/L			06/07/21 02:19	1
<b>Chloride</b>	<b>150</b>		10		mg/L			06/23/21 15:41	5
<b>Fluoride</b>	<b>0.41</b>		0.10		mg/L			06/25/21 12:54	1
<b>Sulfate</b>	<b>1500</b>		250		mg/L			06/24/21 15:11	50

**Client Sample ID: MW-17**

**Lab Sample ID: 500-200232-2**

Date Collected: 06/03/21 10:57

Matrix: Water

Date Received: 06/04/21 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lithium</b>	<b>0.017</b>		0.010		mg/L		06/09/21 08:27	06/09/21 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:27	06/09/21 19:09	1
<b>Arsenic</b>	<b>0.011</b>		0.0010		mg/L		06/09/21 08:27	06/09/21 19:09	1
<b>Barium</b>	<b>0.029</b>		0.0025		mg/L		06/09/21 08:27	06/10/21 13:56	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:09	1
<b>Boron</b>	<b>0.40</b>		0.10		mg/L		06/09/21 08:27	06/10/21 12:26	2
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:09	1
<b>Calcium</b>	<b>150</b>		0.20		mg/L		06/09/21 08:27	06/09/21 19:09	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 19:09	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:09	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:09	1
<b>Molybdenum</b>	<b>0.055</b>		0.0050		mg/L		06/09/21 08:27	06/09/21 19:09	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:27	06/09/21 19:09	1

Eurofins TestAmerica, Chicago

# Client Sample Results

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

Job ID: 500-200232-1

**Client Sample ID: MW-17**

**Date Collected: 06/03/21 10:57**

**Date Received: 06/04/21 13:55**

**Lab Sample ID: 500-200232-2**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:27	06/09/21 19:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/07/21 10:20	06/08/21 07:34	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1300</b>		10		mg/L			06/07/21 02:21	1
<b>Chloride</b>	<b>96</b>		10		mg/L			06/23/21 15:41	5
<b>Fluoride</b>	<b>0.74</b>		0.10		mg/L			06/25/21 13:02	1
<b>Sulfate</b>	<b>500</b>		100		mg/L			06/24/21 15:06	20

**Client Sample ID: MW-14**

**Date Collected: 06/03/21 11:23**

**Date Received: 06/04/21 13:55**

**Lab Sample ID: 500-200232-3**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<b>0.025</b>		0.010		mg/L		06/09/21 08:27	06/09/21 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:27	06/09/21 19:12	1
<b>Arsenic</b>	<b>0.0025</b>		0.0010		mg/L		06/09/21 08:27	06/09/21 19:12	1
<b>Barium</b>	<b>0.036</b>		0.0025		mg/L		06/09/21 08:27	06/10/21 14:00	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:12	1
<b>Boron</b>	<b>2.1</b>		0.25		mg/L		06/09/21 08:27	06/10/21 12:29	5
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:12	1
<b>Calcium</b>	<b>200</b>		0.20		mg/L		06/09/21 08:27	06/09/21 19:12	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 19:12	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:12	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:12	1
<b>Molybdenum</b>	<b>0.028</b>		0.0050		mg/L		06/09/21 08:27	06/09/21 19:12	1
<b>Selenium</b>	<b>0.094</b>		0.0025		mg/L		06/09/21 08:27	06/09/21 19:12	1
<b>Thallium</b>	<b>0.0025</b>		0.0020		mg/L		06/09/21 08:27	06/09/21 19:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/07/21 10:20	06/08/21 07:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1600</b>		10		mg/L			06/07/21 02:24	1
<b>Chloride</b>	<b>26</b>		2.0		mg/L			06/23/21 15:32	1
<b>Fluoride</b>	<b>1.0</b>		0.10		mg/L			06/25/21 13:04	1
<b>Sulfate</b>	<b>590</b>		100		mg/L			06/24/21 15:06	20

# Client Sample Results

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

Job ID: 500-200232-1

**Client Sample ID: MW-20**

**Lab Sample ID: 500-200232-4**

Date Collected: 06/03/21 12:03

Matrix: Water

Date Received: 06/04/21 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/09/21 08:27	06/09/21 18:45	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		06/09/21 08:27	06/09/21 19:16	1
Arsenic	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:16	1
<b>Barium</b>	<b>0.085</b>		0.0025		mg/L		06/09/21 08:27	06/10/21 14:03	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:16	1
<b>Boron</b>	<b>1.5</b>		0.25		mg/L		06/09/21 08:27	06/10/21 12:33	5
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:16	1
<b>Calcium</b>	<b>260</b>		1.0		mg/L		06/09/21 08:27	06/10/21 12:33	5
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 19:16	1
<b>Cobalt</b>	<b>0.0039</b>		0.0010		mg/L		06/09/21 08:27	06/09/21 19:16	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:16	1
Molybdenum	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 19:16	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:27	06/09/21 19:16	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:27	06/09/21 19:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/07/21 10:20	06/08/21 07:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1500</b>		10		mg/L			06/07/21 02:26	1
<b>Chloride</b>	<b>26</b>		2.0		mg/L			06/23/21 15:33	1
<b>Fluoride</b>	<b>0.12</b>		0.10		mg/L			06/25/21 13:07	1
<b>Sulfate</b>	<b>500</b>		100		mg/L			06/24/21 15:07	20

**Client Sample ID: MW-21**

**Lab Sample ID: 500-200232-5**

Date Collected: 06/03/21 12:46

Matrix: Water

Date Received: 06/04/21 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/09/21 08:27	06/09/21 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:27	06/09/21 19:19	1
<b>Arsenic</b>	<b>0.0069</b>		0.0010		mg/L		06/09/21 08:27	06/09/21 19:19	1
<b>Barium</b>	<b>0.25</b>		0.0025		mg/L		06/09/21 08:27	06/10/21 14:06	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:19	1
<b>Boron</b>	<b>0.39</b>		0.050		mg/L		06/09/21 08:27	06/10/21 12:36	1
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:19	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		06/09/21 08:27	06/09/21 19:19	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 19:19	1
<b>Cobalt</b>	<b>0.0020</b>		0.0010		mg/L		06/09/21 08:27	06/09/21 19:19	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:19	1
Molybdenum	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 19:19	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:27	06/09/21 19:19	1

Eurofins TestAmerica, Chicago

# Client Sample Results

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

Job ID: 500-200232-1

**Client Sample ID: MW-21**

**Lab Sample ID: 500-200232-5**

Date Collected: 06/03/21 12:46

Matrix: Water

Date Received: 06/04/21 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:27	06/09/21 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 08:29	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>690</b>		10		mg/L			06/07/21 02:29	1
<b>Chloride</b>	<b>23</b>		2.0		mg/L			06/23/21 15:33	1
<b>Fluoride</b>	<b>0.17</b>		0.10		mg/L			06/25/21 13:11	1
<b>Sulfate</b>	<b>41</b>		5.0		mg/L			06/24/21 14:53	1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-200232-6**

Date Collected: 06/03/21 00:00

Matrix: Water

Date Received: 06/04/21 13:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/09/21 08:27	06/09/21 18:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:27	06/09/21 19:23	1
<b>Arsenic</b>	<b>0.023</b>		0.0010		mg/L		06/09/21 08:27	06/09/21 19:23	1
<b>Barium</b>	<b>0.21</b>		0.0025		mg/L		06/09/21 08:27	06/10/21 14:10	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:23	1
<b>Boron</b>	<b>3.0</b>		0.50		mg/L		06/09/21 08:27	06/10/21 12:40	10
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:23	1
<b>Calcium</b>	<b>330</b>		2.0		mg/L		06/09/21 08:27	06/10/21 12:40	10
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 19:23	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 19:23	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 19:23	1
<b>Molybdenum</b>	<b>0.023</b>		0.0050		mg/L		06/09/21 08:27	06/09/21 19:23	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:27	06/09/21 19:23	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:27	06/09/21 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 08:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>2500</b>		10		mg/L			06/07/21 02:32	1
<b>Chloride</b>	<b>120</b>		10		mg/L			06/23/21 15:42	5
<b>Fluoride</b>	<b>0.38</b>		0.10		mg/L			06/25/21 13:14	1
<b>Sulfate</b>	<b>1400</b>		250		mg/L			06/24/21 15:13	50

# Definitions/Glossary

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

Job ID: 500-200232-1

## 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: Powerton CCR MCB

Job ID: 500-200232-1

## Metals

### Prep Batch: 602646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-2	MW-17	Total/NA	Water	7470A	
500-200232-3	MW-14	Total/NA	Water	7470A	
500-200232-4	MW-20	Total/NA	Water	7470A	
MB 500-602646/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-602646/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 602907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-2	MW-17	Total/NA	Water	7470A	602646
500-200232-3	MW-14	Total/NA	Water	7470A	602646
500-200232-4	MW-20	Total/NA	Water	7470A	602646
MB 500-602646/12-A	Method Blank	Total/NA	Water	7470A	602646
LCS 500-602646/13-A	Lab Control Sample	Total/NA	Water	7470A	602646

### Prep Batch: 603069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total Recoverable	Water	3005A	
500-200232-2	MW-17	Total Recoverable	Water	3005A	
500-200232-3	MW-14	Total Recoverable	Water	3005A	
500-200232-4	MW-20	Total Recoverable	Water	3005A	
500-200232-5	MW-21	Total Recoverable	Water	3005A	
500-200232-6	Duplicate	Total Recoverable	Water	3005A	
MB 500-603069/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-603069/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 603326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total Recoverable	Water	6010C	603069
500-200232-2	MW-17	Total Recoverable	Water	6010C	603069
500-200232-3	MW-14	Total Recoverable	Water	6010C	603069
500-200232-4	MW-20	Total Recoverable	Water	6010C	603069
500-200232-5	MW-21	Total Recoverable	Water	6010C	603069
500-200232-6	Duplicate	Total Recoverable	Water	6010C	603069
MB 500-603069/1-A	Method Blank	Total Recoverable	Water	6010C	603069
LCS 500-603069/2-A	Lab Control Sample	Total Recoverable	Water	6010C	603069

### Analysis Batch: 603368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total Recoverable	Water	6020A	603069
500-200232-2	MW-17	Total Recoverable	Water	6020A	603069
500-200232-3	MW-14	Total Recoverable	Water	6020A	603069
500-200232-4	MW-20	Total Recoverable	Water	6020A	603069
500-200232-5	MW-21	Total Recoverable	Water	6020A	603069
500-200232-6	Duplicate	Total Recoverable	Water	6020A	603069
MB 500-603069/1-A	Method Blank	Total Recoverable	Water	6020A	603069
LCS 500-603069/2-A	Lab Control Sample	Total Recoverable	Water	6020A	603069

### Analysis Batch: 603438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total Recoverable	Water	6020A	603069
500-200232-2	MW-17	Total Recoverable	Water	6020A	603069

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# QC Association Summary

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

Job ID: 500-200232-1

## Metals (Continued)

### Analysis Batch: 603438 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-3	MW-14	Total Recoverable	Water	6020A	603069
500-200232-4	MW-20	Total Recoverable	Water	6020A	603069
500-200232-5	MW-21	Total Recoverable	Water	6020A	603069
500-200232-6	Duplicate	Total Recoverable	Water	6020A	603069
MB 500-603069/1-A	Method Blank	Total Recoverable	Water	6020A	603069
LCS 500-603069/2-A	Lab Control Sample	Total Recoverable	Water	6020A	603069

### Analysis Batch: 603452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total Recoverable	Water	6020A	603069
500-200232-2	MW-17	Total Recoverable	Water	6020A	603069
500-200232-3	MW-14	Total Recoverable	Water	6020A	603069
500-200232-4	MW-20	Total Recoverable	Water	6020A	603069
500-200232-5	MW-21	Total Recoverable	Water	6020A	603069
500-200232-6	Duplicate	Total Recoverable	Water	6020A	603069
MB 500-603069/1-A	Method Blank	Total Recoverable	Water	6020A	603069
LCS 500-603069/2-A	Lab Control Sample	Total Recoverable	Water	6020A	603069

### Prep Batch: 603926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total/NA	Water	7470A	
500-200232-5	MW-21	Total/NA	Water	7470A	
500-200232-6	Duplicate	Total/NA	Water	7470A	
MB 500-603926/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-603926/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 604154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total/NA	Water	7470A	603926
500-200232-5	MW-21	Total/NA	Water	7470A	603926
500-200232-6	Duplicate	Total/NA	Water	7470A	603926
MB 500-603926/12-A	Method Blank	Total/NA	Water	7470A	603926
LCS 500-603926/13-A	Lab Control Sample	Total/NA	Water	7470A	603926

## General Chemistry

### Analysis Batch: 602522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total/NA	Water	SM 2540C	
500-200232-2	MW-17	Total/NA	Water	SM 2540C	
500-200232-3	MW-14	Total/NA	Water	SM 2540C	
500-200232-4	MW-20	Total/NA	Water	SM 2540C	
500-200232-5	MW-21	Total/NA	Water	SM 2540C	
500-200232-6	Duplicate	Total/NA	Water	SM 2540C	
MB 500-602522/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-602522/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 606003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total/NA	Water	SM 4500 CI- E	
500-200232-2	MW-17	Total/NA	Water	SM 4500 CI- E	

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# QC Association Summary

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

Job ID: 500-200232-1

## General Chemistry (Continued)

### Analysis Batch: 606003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-3	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-200232-4	MW-20	Total/NA	Water	SM 4500 Cl- E	
500-200232-5	MW-21	Total/NA	Water	SM 4500 Cl- E	
500-200232-6	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-606003/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-606003/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 606033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-200232-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-200232-3	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-200232-4	MW-20	Total/NA	Water	SM 4500 SO4 E	
500-200232-5	MW-21	Total/NA	Water	SM 4500 SO4 E	
500-200232-6	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-606033/24	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-606033/25	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 606271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total/NA	Water	SM 4500 F C	
500-200232-2	MW-17	Total/NA	Water	SM 4500 F C	
500-200232-3	MW-14	Total/NA	Water	SM 4500 F C	
500-200232-4	MW-20	Total/NA	Water	SM 4500 F C	
500-200232-5	MW-21	Total/NA	Water	SM 4500 F C	
500-200232-6	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-606271/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-606271/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-200232-1 MS	MW-13	Total/NA	Water	SM 4500 F C	
500-200232-1 MSD	MW-13	Total/NA	Water	SM 4500 F C	



# QC Sample Results

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

Job ID: 500-200232-1

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-603069/1-A  
Matrix: Water  
Analysis Batch: 603326

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 603069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		06/09/21 08:27	06/09/21 18:29	1

Lab Sample ID: LCS 500-603069/2-A  
Matrix: Water  
Analysis Batch: 603326

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 603069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.535		mg/L		107	80 - 120

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

Lab Sample ID: MB 500-603069/1-A  
Matrix: Water  
Analysis Batch: 603368

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 603069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/09/21 08:27	06/09/21 18:27	1
Arsenic	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 18:27	1
Beryllium	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 18:27	1
Cadmium	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 18:27	1
Calcium	<0.20		0.20		mg/L		06/09/21 08:27	06/09/21 18:27	1
Chromium	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 18:27	1
Cobalt	<0.0010		0.0010		mg/L		06/09/21 08:27	06/09/21 18:27	1
Lead	<0.00050		0.00050		mg/L		06/09/21 08:27	06/09/21 18:27	1
Molybdenum	<0.0050		0.0050		mg/L		06/09/21 08:27	06/09/21 18:27	1
Selenium	<0.0025		0.0025		mg/L		06/09/21 08:27	06/09/21 18:27	1
Thallium	<0.0020		0.0020		mg/L		06/09/21 08:27	06/09/21 18:27	1

Lab Sample ID: MB 500-603069/1-A  
Matrix: Water  
Analysis Batch: 603452

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 603069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		06/09/21 08:27	06/10/21 12:16	1

Lab Sample ID: MB 500-603069/1-A  
Matrix: Water  
Analysis Batch: 603438

Client Sample ID: Method Blank  
Prep Type: Total Recoverable  
Prep Batch: 603069

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.0025		0.0025		mg/L		06/09/21 08:27	06/10/21 13:15	1

Lab Sample ID: LCS 500-603069/2-A  
Matrix: Water  
Analysis Batch: 603368

Client Sample ID: Lab Control Sample  
Prep Type: Total Recoverable  
Prep Batch: 603069

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.543		mg/L		109	80 - 120
Arsenic	0.100	0.102		mg/L		102	80 - 120
Beryllium	0.0500	0.0481		mg/L		96	80 - 120

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# QC Sample Results

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

Job ID: 500-200232-1

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

**Lab Sample ID: LCS 500-603069/2-A**  
**Matrix: Water**  
**Analysis Batch: 603368**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603069**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.0500	0.0521		mg/L		104	80 - 120
Calcium	10.0	10.6		mg/L		106	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.528		mg/L		106	80 - 120
Lead	0.100	0.114		mg/L		114	80 - 120
Molybdenum	1.00	1.03		mg/L		103	80 - 120
Selenium	0.100	0.106		mg/L		106	80 - 120
Thallium	0.100	0.113		mg/L		113	80 - 120

**Lab Sample ID: LCS 500-603069/2-A**  
**Matrix: Water**  
**Analysis Batch: 603452**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603069**

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

**Lab Sample ID: LCS 500-603069/2-A**  
**Matrix: Water**  
**Analysis Batch: 603438**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 603069**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.09		mg/L		105	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-602646/12-A**  
**Matrix: Water**  
**Analysis Batch: 602907**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 602646**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/07/21 10:20	06/08/21 07:02	1

**Lab Sample ID: LCS 500-602646/13-A**  
**Matrix: Water**  
**Analysis Batch: 602907**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 602646**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00183		mg/L		91	80 - 120

**Lab Sample ID: MB 500-603926/12-A**  
**Matrix: Water**  
**Analysis Batch: 604154**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 603926**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/14/21 09:40	06/15/21 07:24	1

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# QC Sample Results

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

Job ID: 500-200232-1

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

Lab Sample ID: LCS 500-603926/13-A  
Matrix: Water  
Analysis Batch: 604154

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 603926  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

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

Lab Sample ID: MB 500-602522/1  
Matrix: Water  
Analysis Batch: 602522

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			06/07/21 01:43	1

Lab Sample ID: LCS 500-602522/2  
Matrix: Water  
Analysis Batch: 602522

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

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

Lab Sample ID: MB 500-606003/16  
Matrix: Water  
Analysis Batch: 606003

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/23/21 15:30	1

Lab Sample ID: LCS 500-606003/17  
Matrix: Water  
Analysis Batch: 606003

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	20.0	20.1		mg/L		100	85 - 115

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-606271/3  
Matrix: Water  
Analysis Batch: 606271

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			06/25/21 12:48	1

Lab Sample ID: LCS 500-606271/4  
Matrix: Water  
Analysis Batch: 606271

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Fluoride	10.0	11.0		mg/L		110	80 - 120

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# QC Sample Results

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

Job ID: 500-200232-1

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

Lab Sample ID: 500-200232-1 MS  
Matrix: Water  
Analysis Batch: 606271

Client Sample ID: MW-13  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.41		5.00	5.84		mg/L		109	75 - 125

Lab Sample ID: 500-200232-1 MSD  
Matrix: Water  
Analysis Batch: 606271

Client Sample ID: MW-13  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.41		5.00	5.90		mg/L		110	75 - 125	1	20

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

Lab Sample ID: MB 500-606033/24  
Matrix: Water  
Analysis Batch: 606033

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/24/21 14:52	1

Lab Sample ID: LCS 500-606033/25  
Matrix: Water  
Analysis Batch: 606033

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		108	80 - 120

**TestAmerica Chicago**

2417 Bond Street

University Park IL 60484-3101  
phone 708 534 5200 fax 708 534 5211

**Chain of Custody Record**

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b> KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton MCB CCR Site Powerton Station Pekin IL 500-200232 COC		<b>Project Manager: Rich Gnat</b> Tel/Fax: (262) 781-0475		<b>Site Contact: Mitchel Dolan</b> Lab Contact: Diana Mockler		Date: 6/3/2021 Carrier: FedEx		COC No 1 of 1 COCs Sampler M Dolan For Lab Use Only Walk-in Client Lab Sampling Job / SDG No 500-200232											
<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Sample Identification</b> Sample Date Sample Time Sample Type (C=Comp G=Grab) Matrix # of Cont.		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903.0 904.0 Radium 226/228 + Combine 6020A, 7470A 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_Cl_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		Sample Specific Notes													
1	MW-13	6/3	1020	G	W	6	N	N	X	X	X	X	X	X	X				
2	MW-17	6/3	1057	G	W	6													
3	MW-14	6/3	1123	G	W	6													
4	MW-20	6/3	1203	G	W	6													
5	MW-21	6/3	1246	G	W	6													
6	Duplicate	6/3	-	G	W	6													
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4 4 4 1 1 1 1											
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: Lab Project #50018578. CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium										3.6, 5.2p									
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 Mitchel Dolan <i>MID</i>		Company KPRG		Date/Time 6/3/21/1500		Received by FedEx		Company FEDEX		Date/Time 6/3/21/1500									
Relinquished by		Company		Date/Time		Received by		Company		Date/Time									
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Shirley Scott</i>		Company EPA-COC		Date/Time 6/4/21 1355									

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 03JUN21  
ACTWGT: 55.00 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-48E3A2P08B0C7E709E 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS/TEST AMERICA LABS INC**  
**2417 BOND ST**



**UNIVERSITY PARK IL 60484**

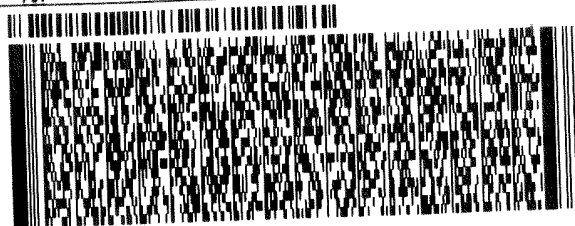
(508) 821-6333

REF:

500-200232 Wayb

INU:  
PO:

DEPT:



**FedEx**  
Express



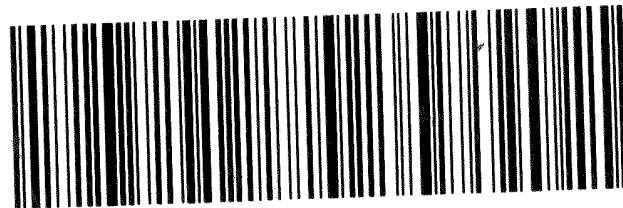
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1 of 2  
TRK# 7879 1070 5188  
0201  
## MASTER ##

**FRI - 04 JUN 4:30P**  
**STANDARD OVERNIGHT**

**UF JOTA**

60484  
IL-US ORD



ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 03JUN21  
ACTWGT: 53.00 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-48E3A2P08B0C7E709E 03/22

TO **SAMPLE RECEIVING**  
**EUROFINS/TEST AMERICA LABS INC**  
**2417 BOND ST**

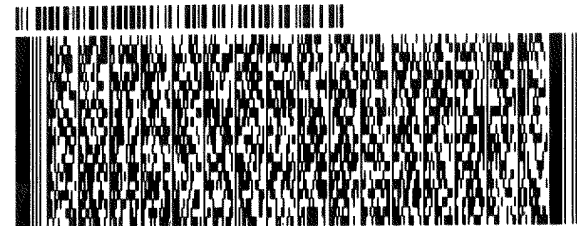
**UNIVERSITY PARK IL 60484**

(508) 821-6333

REF:

INU:  
PO:

DEPT:



**FedEx**  
Express



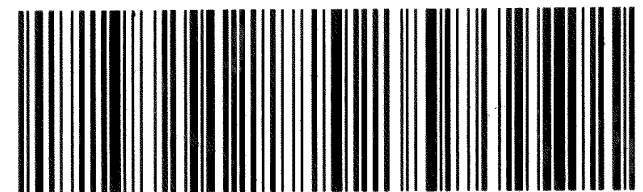
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2 of 2  
MPS# 7879 1070 5199  
0263  
Mstr# 7879 1070 5188

**FRI - 04 JUN 4:30P**  
**STANDARD OVERNIGHT**

**UF JOTA**

60484  
IL-US ORD



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-200232-1

**Login Number: 200232**

**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	3.6,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





# Lab Chronicle

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

Job ID: 500-200232-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-200232-1**

**Date Collected: 06/03/21 10:20**

**Matrix: Water**

**Date Received: 06/04/21 13:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 18:35	EEN	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 18:58	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	603452	06/10/21 12:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 13:46	FXG	TAL CHI
Total/NA	Prep	7470A			603926	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 08:26	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	602522	06/07/21 02:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	606003	06/23/21 15:41	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606271	06/25/21 12:54	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	606033	06/24/21 15:11	MS	TAL CHI

**Client Sample ID: MW-17**

**Lab Sample ID: 500-200232-2**

**Date Collected: 06/03/21 10:57**

**Matrix: Water**

**Date Received: 06/04/21 13:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 18:39	EEN	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 19:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	603452	06/10/21 12:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 13:56	FXG	TAL CHI
Total/NA	Prep	7470A			602646	06/07/21 10:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602907	06/08/21 07:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	602522	06/07/21 02:21	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	606003	06/23/21 15:41	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606271	06/25/21 13:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606033	06/24/21 15:06	MS	TAL CHI

**Client Sample ID: MW-14**

**Lab Sample ID: 500-200232-3**

**Date Collected: 06/03/21 11:23**

**Matrix: Water**

**Date Received: 06/04/21 13:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 18:42	EEN	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 19:12	FXG	TAL CHI

Eurofins TestAmerica, Chicago



# Lab Chronicle

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

Job ID: 500-200232-1

**Client Sample ID: MW-14**

**Date Collected: 06/03/21 11:23**

**Date Received: 06/04/21 13:55**

**Lab Sample ID: 500-200232-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	603452	06/10/21 12:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 14:00	FXG	TAL CHI
Total/NA	Prep	7470A			602646	06/07/21 10:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602907	06/08/21 07:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	602522	06/07/21 02:24	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	606003	06/23/21 15:32	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606271	06/25/21 13:04	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606033	06/24/21 15:06	MS	TAL CHI

**Client Sample ID: MW-20**

**Date Collected: 06/03/21 12:03**

**Date Received: 06/04/21 13:55**

**Lab Sample ID: 500-200232-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 18:45	EEN	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 19:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	603452	06/10/21 12:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 14:03	FXG	TAL CHI
Total/NA	Prep	7470A			602646	06/07/21 10:20	MJG	TAL CHI
Total/NA	Analysis	7470A		1	602907	06/08/21 07:38	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	602522	06/07/21 02:26	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	606003	06/23/21 15:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606271	06/25/21 13:07	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	606033	06/24/21 15:07	MS	TAL CHI

**Client Sample ID: MW-21**

**Date Collected: 06/03/21 12:46**

**Date Received: 06/04/21 13:55**

**Lab Sample ID: 500-200232-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 18:55	EEN	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 19:19	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603452	06/10/21 12:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 14:06	FXG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-200232-1

**Client Sample ID: MW-21**

**Lab Sample ID: 500-200232-5**

**Date Collected: 06/03/21 12:46**

**Matrix: Water**

**Date Received: 06/04/21 13:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			603926	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 08:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	602522	06/07/21 02:29	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	606003	06/23/21 15:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606271	06/25/21 13:11	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	606033	06/24/21 14:53	MS	TAL CHI

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-200232-6**

**Date Collected: 06/03/21 00:00**

**Matrix: Water**

**Date Received: 06/04/21 13:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	603326	06/09/21 18:58	EEN	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603368	06/09/21 19:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	603452	06/10/21 12:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			603069	06/09/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	603438	06/10/21 14:10	FXG	TAL CHI
Total/NA	Prep	7470A			603926	06/14/21 09:40	MJG	TAL CHI
Total/NA	Analysis	7470A		1	604154	06/15/21 08:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	602522	06/07/21 02:32	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	606003	06/23/21 15:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	606271	06/25/21 13:14	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	606033	06/24/21 15:13	MS	TAL CHI

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-200232-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-200232-2  
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:  
7/1/2021 2:17:24 PM

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

### LINKS

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results through  
**TotalAccess**

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

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

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

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# Case Narrative

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

Job ID: 500-200232-2

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## Job ID: 500-200232-2

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Laboratory: Eurofins TestAmerica, Chicago

### Narrative

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#### Job Narrative 500-200232-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 6/4/2021 1:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6° C and 5.6° C.

#### RAD

Methods 903.0, 9315: Radium-226 Batch 513323

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-13 (500-200232-1), MW-17 (500-200232-2), MW-14 (500-200232-3), MW-20 (500-200232-4), MW-21 (500-200232-5), Duplicate (500-200232-6), (LCS 160-513323/1-A), (MB 160-513323/16-A) and (500-200232-D-6-D DU)

Methods 904.0, 9320: Radium228 prep batch 160-513326

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-13 (500-200232-1), MW-17 (500-200232-2), MW-14 (500-200232-3), MW-20 (500-200232-4), MW-21 (500-200232-5), Duplicate (500-200232-6), (LCS 160-513326/1-A), (MB 160-513326/16-A) and (500-200232-D-6-C DU)

Method PrecSep\_0:

Method PrecSep-21:

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

# Method Summary

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

Job ID: 500-200232-2

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: Powerton CCR MCB

Job ID: 500-200232-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-200232-1	MW-13	Water	06/03/21 10:20	06/04/21 13:55	
500-200232-2	MW-17	Water	06/03/21 10:57	06/04/21 13:55	
500-200232-3	MW-14	Water	06/03/21 11:23	06/04/21 13:55	
500-200232-4	MW-20	Water	06/03/21 12:03	06/04/21 13:55	
500-200232-5	MW-21	Water	06/03/21 12:46	06/04/21 13:55	
500-200232-6	Duplicate	Water	06/03/21 00:00	06/04/21 13:55	

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14



# Client Sample Results

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

Job ID: 500-200232-2

**Client Sample ID: MW-13**

**Lab Sample ID: 500-200232-1**

Date Collected: 06/03/21 10:20

Matrix: Water

Date Received: 06/04/21 13:55

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.254		0.0998	0.102	1.00	0.113	pCi/L	06/08/21 11:46	06/30/21 11:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					06/08/21 11:46	06/30/21 11:25	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	0.537		0.264	0.268	1.00	0.383	pCi/L	06/08/21 12:04	06/17/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.0		40 - 110					06/08/21 12:04	06/17/21 12:37	1
Y Carrier	84.1		40 - 110					06/08/21 12:04	06/17/21 12:37	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	0.790		0.282	0.287	5.00	0.383	pCi/L		07/01/21 13:29	1

**Client Sample ID: MW-17**

**Lab Sample ID: 500-200232-2**

Date Collected: 06/03/21 10:57

Matrix: Water

Date Received: 06/04/21 13:55

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170		0.0872	0.0885	1.00	0.111	pCi/L	06/08/21 11:46	06/30/21 11:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					06/08/21 11:46	06/30/21 11:28	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	<0.463	U	0.273	0.274	1.00	0.463	pCi/L	06/08/21 12:04	06/17/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.1		40 - 110					06/08/21 12:04	06/17/21 12:37	1
Y Carrier	85.6		40 - 110					06/08/21 12:04	06/17/21 12:37	1

# Client Sample Results

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

Job ID: 500-200232-2

## Client Sample ID: MW-17

Date Collected: 06/03/21 10:57

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-2

Matrix: Water

### 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	<0.463	U	0.287	0.288	5.00	0.463	pCi/L		07/01/21 13:29	1

## Client Sample ID: MW-14

Date Collected: 06/03/21 11:23

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-3

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124		0.0751	0.0759	1.00	0.102	pCi/L	06/08/21 11:46	06/30/21 11:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					06/08/21 11:46	06/30/21 11:28	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	<0.357	U	0.211	0.212	1.00	0.357	pCi/L	06/08/21 12:04	06/17/21 12:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.1		40 - 110					06/08/21 12:04	06/17/21 12:38	1
Y Carrier	86.0		40 - 110					06/08/21 12:04	06/17/21 12:38	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	<0.357	U	0.224	0.225	5.00	0.357	pCi/L		07/01/21 13:29	1

## Client Sample ID: MW-20

Date Collected: 06/03/21 12:03

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-4

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.351		0.122	0.126	1.00	0.126	pCi/L	06/08/21 11:46	06/30/21 19:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		40 - 110					06/08/21 11:46	06/30/21 19:24	1

# Client Sample Results

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

Job ID: 500-200232-2

## Client Sample ID: MW-20

Date Collected: 06/03/21 12:03

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-4

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.401	U	0.259	0.261	1.00	0.401	pCi/L	06/08/21 12:04	06/17/21 12:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.3		40 - 110					06/08/21 12:04	06/17/21 12:38	1
Y Carrier	87.1		40 - 110					06/08/21 12:04	06/17/21 12:38	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	0.708		0.286	0.290	5.00	0.401	pCi/L		07/01/21 13:29	1

## Client Sample ID: MW-21

Date Collected: 06/03/21 12:46

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-5

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.577		0.174	0.182	1.00	0.166	pCi/L	06/08/21 11:46	06/30/21 11:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		40 - 110					06/08/21 11:46	06/30/21 11:28	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	<0.699	U	0.430	0.432	1.00	0.699	pCi/L	06/08/21 12:04	06/17/21 12:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.7		40 - 110					06/08/21 12:04	06/17/21 12:38	1
Y Carrier	84.9		40 - 110					06/08/21 12:04	06/17/21 12:38	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	1.01		0.464	0.469	5.00	0.699	pCi/L		07/01/21 13:29	1

# Client Sample Results

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

Job ID: 500-200232-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-200232-6**

Date Collected: 06/03/21 00:00

Matrix: Water

Date Received: 06/04/21 13:55

**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>0.267</b>		0.103	0.106	1.00	0.113	pCi/L	06/08/21 11:46	06/30/21 11:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					06/08/21 11:46	06/30/21 11:27	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>0.653</b>		0.303	0.309	1.00	0.441	pCi/L	06/08/21 12:04	06/17/21 12:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					06/08/21 12:04	06/17/21 12:36	1
Y Carrier	83.0		40 - 110					06/08/21 12:04	06/17/21 12:36	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.920</b>		0.320	0.327	5.00	0.441	pCi/L		07/01/21 13:29	1

# Definitions/Glossary

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

Job ID: 500-200232-2

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-200232-2

## Rad

### Prep Batch: 513323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total/NA	Water	PrecSep-21	
500-200232-2	MW-17	Total/NA	Water	PrecSep-21	
500-200232-3	MW-14	Total/NA	Water	PrecSep-21	
500-200232-4	MW-20	Total/NA	Water	PrecSep-21	
500-200232-5	MW-21	Total/NA	Water	PrecSep-21	
500-200232-6	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-513323/16-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-513323/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-200232-6 DU	Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 513326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-200232-1	MW-13	Total/NA	Water	PrecSep_0	
500-200232-2	MW-17	Total/NA	Water	PrecSep_0	
500-200232-3	MW-14	Total/NA	Water	PrecSep_0	
500-200232-4	MW-20	Total/NA	Water	PrecSep_0	
500-200232-5	MW-21	Total/NA	Water	PrecSep_0	
500-200232-6	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-513326/16-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-513326/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-200232-6 DU	Duplicate	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-200232-2

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

**Lab Sample ID: MB 160-513323/16-A**  
**Matrix: Water**  
**Analysis Batch: 516648**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 513323**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.103	U	0.0692	0.0697	1.00	0.103	pCi/L	06/08/21 11:46	06/30/21 13:18	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	88.2		40 - 110			06/08/21 11:46	06/30/21 13:18	1		

**Lab Sample ID: LCS 160-513323/1-A**  
**Matrix: Water**  
**Analysis Batch: 516648**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 513323**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.37		1.10	1.00	0.125	pCi/L	91	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	69.8		40 - 110						

**Lab Sample ID: 500-200232-6 DU**  
**Matrix: Water**  
**Analysis Batch: 516647**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 513323**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.267		0.3212		0.111	1.00	0.110	pCi/L	0.25	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.7		40 - 110							

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

**Lab Sample ID: MB 160-513326/16-A**  
**Matrix: Water**  
**Analysis Batch: 514698**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 513326**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4724		0.274	0.277	1.00	0.413	pCi/L	06/08/21 12:04	06/17/21 12:44	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	88.2		40 - 110			06/08/21 12:04	06/17/21 12:44	1		
Y Carrier	85.2		40 - 110			06/08/21 12:04	06/17/21 12:44	1		

# QC Sample Results

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

Job ID: 500-200232-2

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

**Lab Sample ID: LCS 160-513326/1-A**  
**Matrix: Water**  
**Analysis Batch: 514735**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 513326**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits																									
Radium-228	9.62	10.44		1.26	1.00	0.478	pCi/L	109	75 - 125																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th>LCS</th> <th>LCS</th> <th colspan="2"></th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>69.8</td> <td></td> <td>40 - 110</td> <td colspan="2"></td> </tr> <tr> <td>Y Carrier</td> <td>86.4</td> <td></td> <td>40 - 110</td> <td colspan="2"></td> </tr> </tbody> </table>													LCS	LCS			Carrier	%Yield	Qualifier	Limits			Ba Carrier	69.8		40 - 110			Y Carrier	86.4		40 - 110		
		LCS	LCS																															
Carrier	%Yield	Qualifier	Limits																															
Ba Carrier	69.8		40 - 110																															
Y Carrier	86.4		40 - 110																															

**Lab Sample ID: 500-200232-6 DU**  
**Matrix: Water**  
**Analysis Batch: 514735**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 513326**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit																								
										1																								
Radium-228	0.653		0.6163		0.311	1.00	0.452	pCi/L	0.06	1																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th>DU</th> <th>DU</th> <th colspan="2"></th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>84.7</td> <td></td> <td>40 - 110</td> <td colspan="2"></td> </tr> <tr> <td>Y Carrier</td> <td>85.6</td> <td></td> <td>40 - 110</td> <td colspan="2"></td> </tr> </tbody> </table>													DU	DU			Carrier	%Yield	Qualifier	Limits			Ba Carrier	84.7		40 - 110			Y Carrier	85.6		40 - 110		
		DU	DU																															
Carrier	%Yield	Qualifier	Limits																															
Ba Carrier	84.7		40 - 110																															
Y Carrier	85.6		40 - 110																															



TestAmerica Chicago

2417 Bond Street

University Park IL 60484-3101  
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Chain of Custody Record

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THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other

<b>Client Contact</b> KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton MCB CCR Site Powerton Station Pekin IL 500-200232 COC		<b>Project Manager: Rich Gnat</b> Tel/Fax: (262) 781-0475		<b>Site Contact: Mitchel Dolan</b> Lab Contact: Diana Mockler		Date: 6/3/2021 Carrier: FedEx		COC No 1 of 1 COCs Sampler M Dolan For Lab Use Only Walk-in Client Lab Sampling Job / SDG No 500-200232											
<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903.0 904.0 Radium 226/228 + Combine 6020A, 7470A 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_Cl_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		Sample Identification Sample Date Sample Time Sample Type (C=Comp G=Grab) Matrix # of Cont.				Sample Specific Notes							
1	MW-13	6/3	1020	G	W	6	N	N	X	X	X	X	X	X	X	X			
2	MW-17	6/3	1057	G	W	6													
3	MW-14	6/3	1123	G	W	6													
4	MW-20	6/3	1203	G	W	6													
5	MW-21	6/3	1246	G	W	6													
6	Duplicate	6/3	-	G	W	6													
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4 4 4 1 1 1 1											
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: Lab Project #50018578. CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium										3.6, 5.2p									
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 Mitchel Dolan <i>MID</i>		Company KPRG		Date/Time 6/3/21/1500		Received by FedEx		Company FEDEX		Date/Time 6/3/21/1500		Received by		Company		Date/Time			
Relinquished by		Company		Date/Time		Received by		Company		Date/Time		Received in Laboratory by		Company		Date/Time			
Relinquished by		Company		Date/Time		Received in Laboratory by <i>Shirley Scott</i>		Company <i>ETA-CHE</i>		Date/Time 6/4/21 1355		Received in Laboratory by		Company		Date/Time			

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 03JUN21  
ACTWGT: 55.00 LB  
CAD: 6994779/SSFE2201  
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4863A/P0880476-03/22

TO **SAMPLE RECEIVING**  
**EUROFINS/TEST AMERICA LABS INC**  
**2417 BOND ST**



**UNIVERSITY PARK IL 60484**

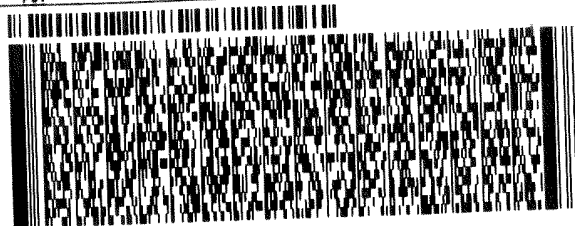
(508) 821-6333

REF:

500-200232 Wayb

INU:  
PO:

DEPT:



**FedEx**  
Express



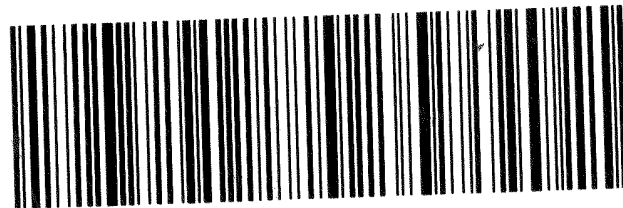
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1 of 2  
TRK# 7879 1070 5188  
0201  
## MASTER ##

**FRI - 04 JUN 4:30P**  
**STANDARD OVERNIGHT**

**UF JOTA**

60484  
IL-US ORD



ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 03JUN21  
ACTWGT: 53.00 LB  
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DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4863A/P0880476-03/22

TO **SAMPLE RECEIVING**  
**EUROFINS/TEST AMERICA LABS INC**  
**2417 BOND ST**

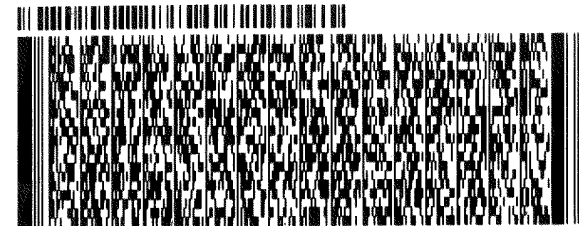
**UNIVERSITY PARK IL 60484**

(508) 821-6333

REF:

INU:  
PO:

DEPT:



**FedEx**  
Express



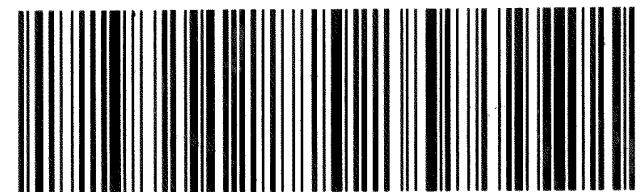
AM10185911261127

2 of 2  
MPS# 7879 1070 5199  
0263  
Mstr# 7879 1070 5188

**FRI - 04 JUN 4:30P**  
**STANDARD OVERNIGHT**

**UF JOTA**

60484  
IL-US ORD





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-200232-2

**Login Number: 200232**

**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	3.6,5.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-200232-2

**Login Number: 200232**

**List Number: 2**

**Creator: Mazariegos, Leonel A**

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

**List Creation: 06/05/21 11:20 AM**

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



# Lab Chronicle

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

Job ID: 500-200232-2

## Client Sample ID: MW-13

Date Collected: 06/03/21 10:20

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513323	06/08/21 11:46	MJ	TAL SL
Total/NA	Analysis	903.0		1	516648	06/30/21 11:25	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513326	06/08/21 12:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	514735	06/17/21 12:37	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516900	07/01/21 13:29	SCB	TAL SL

## Client Sample ID: MW-17

Date Collected: 06/03/21 10:57

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513323	06/08/21 11:46	MJ	TAL SL
Total/NA	Analysis	903.0		1	516647	06/30/21 11:28	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513326	06/08/21 12:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	514735	06/17/21 12:37	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516900	07/01/21 13:29	SCB	TAL SL

## Client Sample ID: MW-14

Date Collected: 06/03/21 11:23

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513323	06/08/21 11:46	MJ	TAL SL
Total/NA	Analysis	903.0		1	516647	06/30/21 11:28	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513326	06/08/21 12:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	514735	06/17/21 12:38	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516900	07/01/21 13:29	SCB	TAL SL

## Client Sample ID: MW-20

Date Collected: 06/03/21 12:03

Date Received: 06/04/21 13:55

## Lab Sample ID: 500-200232-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513323	06/08/21 11:46	MJ	TAL SL
Total/NA	Analysis	903.0		1	516648	06/30/21 19:24	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513326	06/08/21 12:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	514735	06/17/21 12:38	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516900	07/01/21 13:29	SCB	TAL SL

# Lab Chronicle

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

Job ID: 500-200232-2

**Client Sample ID: MW-21**

**Lab Sample ID: 500-200232-5**

**Date Collected: 06/03/21 12:46**

**Matrix: Water**

**Date Received: 06/04/21 13:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513323	06/08/21 11:46	MJ	TAL SL
Total/NA	Analysis	903.0		1	516647	06/30/21 11:28	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513326	06/08/21 12:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	514735	06/17/21 12:38	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516900	07/01/21 13:29	SCB	TAL SL

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-200232-6**

**Date Collected: 06/03/21 00:00**

**Matrix: Water**

**Date Received: 06/04/21 13:55**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			513323	06/08/21 11:46	MJ	TAL SL
Total/NA	Analysis	903.0		1	516647	06/30/21 11:27	SCB	TAL SL
Total/NA	Prep	PrecSep_0			513326	06/08/21 12:04	MJ	TAL SL
Total/NA	Analysis	904.0		1	514735	06/17/21 12:36	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	516900	07/01/21 13:29	SCB	TAL SL

**Laboratory References:**

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



# Accreditation/Certification Summary

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

Job ID: 500-200232-2

## Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

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# Tracer/Carrier Summary

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

Job ID: 500-200232-2

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)
500-200232-1	MW-13	90.0
500-200232-2	MW-17	84.1
500-200232-3	MW-14	89.1
500-200232-4	MW-20	77.3
500-200232-5	MW-21	75.7
500-200232-6	Duplicate	84.7
500-200232-6 DU	Duplicate	84.7
LCS 160-513323/1-A	Lab Control Sample	69.8
MB 160-513323/16-A	Method Blank	88.2

#### Tracer/Carrier Legend

Ba = Ba Carrier

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

Matrix: Water

Prep Type: Total/NA

### Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-200232-1	MW-13	90.0	84.1
500-200232-2	MW-17	84.1	85.6
500-200232-3	MW-14	89.1	86.0
500-200232-4	MW-20	77.3	87.1
500-200232-5	MW-21	75.7	84.9
500-200232-6	Duplicate	84.7	83.0
500-200232-6 DU	Duplicate	84.7	85.6
LCS 160-513326/1-A	Lab Control Sample	69.8	86.4
MB 160-513326/16-A	Method Blank	88.2	85.2

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-201619-1  
Client Project/Site: Powerton FAB CCR - Resample

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

Attn: Richard Gnat



Authorized for release by:  
7/6/2021 4:34:49 PM  
Robin Kintz, Project Manager II  
(708)534-5200  
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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: Powerton FAB CCR - Resample

Job ID: 500-201619-1

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**Job ID: 500-201619-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-201619-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 6/29/2021 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0° C.

**Metals**

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

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# Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI

**Protocol References:**

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: Powerton FAB CCR - Resample

Job ID: 500-201619-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-201619-1	MW-02	Water	06/28/21 09:36	06/29/21 15:20	
500-201619-2	MW-03	Water	06/28/21 09:09	06/29/21 15:20	
500-201619-3	MW-04	Water	06/28/21 08:38	06/29/21 15:20	
500-201619-4	MW-05	Water	06/28/21 08:03	06/29/21 15:20	
500-201619-5	MW-10	Water	06/28/21 10:20	06/29/21 15:20	

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# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

**Client Sample ID: MW-02**  
**Date Collected: 06/28/21 09:36**  
**Date Received: 06/29/21 15:20**

**Lab Sample ID: 500-201619-1**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:48	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

**Client Sample ID: MW-03**  
**Date Collected: 06/28/21 09:09**  
**Date Received: 06/29/21 15:20**

**Lab Sample ID: 500-201619-2**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:50	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

**Client Sample ID: MW-04**  
**Date Collected: 06/28/21 08:38**  
**Date Received: 06/29/21 15:20**

**Lab Sample ID: 500-201619-3**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:52	1



# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

**Client Sample ID: MW-05**  
**Date Collected: 06/28/21 08:03**  
**Date Received: 06/29/21 15:20**

**Lab Sample ID: 500-201619-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:54	1

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

**Client Sample ID: MW-10**

**Date Collected: 06/28/21 10:20**

**Date Received: 06/29/21 15:20**

**Lab Sample ID: 500-201619-5**

**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:56	1

# Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

## 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: Powerton FAB CCR - Resample

Job ID: 500-201619-1

## Metals

### Prep Batch: 607205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201619-1	MW-02	Total/NA	Water	7470A	
500-201619-2	MW-03	Total/NA	Water	7470A	
500-201619-3	MW-04	Total/NA	Water	7470A	
500-201619-4	MW-05	Total/NA	Water	7470A	
500-201619-5	MW-10	Total/NA	Water	7470A	
MB 500-607205/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-607205/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Prep Batch: 607459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201619-1	MW-02	Total Recoverable	Water	3005A	
500-201619-2	MW-03	Total Recoverable	Water	3005A	
500-201619-3	MW-04	Total Recoverable	Water	3005A	
500-201619-4	MW-05	Total Recoverable	Water	3005A	
500-201619-5	MW-10	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: 607515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201619-1	MW-02	Total/NA	Water	7470A	607205
500-201619-2	MW-03	Total/NA	Water	7470A	607205
500-201619-3	MW-04	Total/NA	Water	7470A	607205
500-201619-4	MW-05	Total/NA	Water	7470A	607205
500-201619-5	MW-10	Total/NA	Water	7470A	607205
MB 500-607205/12-A	Method Blank	Total/NA	Water	7470A	607205
LCS 500-607205/13-A	Lab Control Sample	Total/NA	Water	7470A	607205

### Analysis Batch: 607812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201619-1	MW-02	Total Recoverable	Water	6010C	607459
500-201619-2	MW-03	Total Recoverable	Water	6010C	607459
500-201619-3	MW-04	Total Recoverable	Water	6010C	607459
500-201619-4	MW-05	Total Recoverable	Water	6010C	607459
500-201619-5	MW-10	Total Recoverable	Water	6010C	607459
MB 500-607459/1-A	Method Blank	Total Recoverable	Water	6010C	607459
LCS 500-607459/2-A	Lab Control Sample	Total Recoverable	Water	6010C	607459

# QC Sample Results

Client: KPRG and Associates, Inc.  
 Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-607459/1-A**  
**Matrix: Water**  
**Analysis Batch: 607812**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:10	1

**Lab Sample ID: LCS 500-607459/2-A**  
**Matrix: Water**  
**Analysis Batch: 607812**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.529		mg/L		106	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-607205/12-A**  
**Matrix: Water**  
**Analysis Batch: 607515**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 607205**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:44	1


**Lab Sample ID: LCS 500-607205/13-A**  
**Matrix: Water**  
**Analysis Batch: 607515**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 607205**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00224		mg/L		112	80 - 120

Chain of Custody Record

Regulatory Program:  DW  NPDES  RCRA  Other

Client Contact		Project Manager: Rich Gnat			Site Contact: Mitchel Dolan		Date: 6/28/21		COC No		
KPRG and Associates Inc		Tel/Fax: (262) 781-0475			Lab Contact: Diana Mockler		Carrier: FedEx		of COCs		
14665 West Lisbon Road Suite 1A		Analysis Turnaround Time			Filtered Sample (Y/N) Perform MS / MSD (Y/N) 6010C - Lithium 7470A - Mercury		 500-201619 COC		Sampler:		
Brookfield WI 53154		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____							For Lab Use Only:		
(262) 781-0475 Phone		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							Walk-in Client		
(262) 781-0478 FAX									Lab Sampling		
Project Name Powerton FAB CCR									Job / SDG No		
Site Powerton Station - Pekin IL					500-201619						
P O # 4501908159											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	6010C - Lithium	7470A - Mercury	Sample Specific Notes
1 MW-02		6/28	0936	G	W	1	N	N	X	X	
2 MW-03		6/28	0909	G	W	1			X	X	
3 MW-04		6/28	0838	G	W	1			X	X	
4 MW-05		6/28	0803	G	W	1			X	X	
5 MW-10		6/28	1020	G	W	1			X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							4 4				
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 checked="" type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months				
Special Instructions/QC Requirements & Comments. Lab Project #50011612.											
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temp (°C) Obs'd		4.0		Corr'd		Therm ID No
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 6/28/1700		Received by FedEx		Company		Date/Time 6/28/21 / 1700	
Relinquished by		Company		Date/Time		Received by		Company		Date/Time	
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company ETA-GHI		Date/Time 6/29/21 1520	

ORIGIN ID:PIAA (000) 000-0000  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 28JUN21  
ACTWGT: 61.00 LB  
CAD: 6994779/SSFE2202  
DIMS: 24x18x12 IN  
BILL THIRD PARTY

Part # 156295-483428

TO **SAMPLE RECEIVING**  
**EUROFINS**  
**2417 BOND ST**



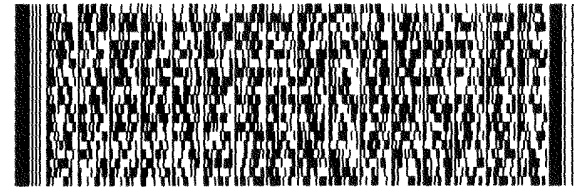
**UNIVERSITY PARK IL 60484**

500-201619 Wayb

(708) 634-6200  
INU:  
PO:

REF:

DEPT:



**FedEx**  
Express



AV 101163012311127

1 of 3

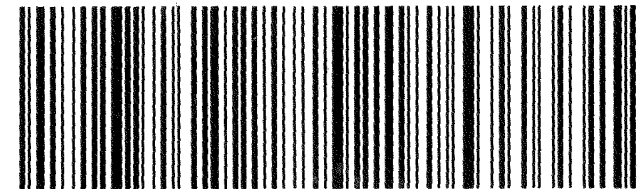
TRK# 2808 9368 7467  
0201  
## MASTER ##

**TUE - 29 JUN 4:30P**  
**STANDARD OVERNIGHT**

**UF JOTA**

*30 gk*

**60484**  
IL-US **ORD**



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# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-201619-1

**Login Number: 201619**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

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	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: Powerton FAB CCR - Resample

Job ID: 500-201619-1

## Client Sample ID: MW-02

Date Collected: 06/28/21 09:36

Date Received: 06/29/21 15:20

## Lab Sample ID: 500-201619-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:16	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:48	MJG	TAL CHI

## Client Sample ID: MW-03

Date Collected: 06/28/21 09:09

Date Received: 06/29/21 15:20

## Lab Sample ID: 500-201619-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:20	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:50	MJG	TAL CHI

## Client Sample ID: MW-04

Date Collected: 06/28/21 08:38

Date Received: 06/29/21 15:20

## Lab Sample ID: 500-201619-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:23	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:52	MJG	TAL CHI

## Client Sample ID: MW-05

Date Collected: 06/28/21 08:03

Date Received: 06/29/21 15:20

## Lab Sample ID: 500-201619-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:34	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:54	MJG	TAL CHI

## Client Sample ID: MW-10

Date Collected: 06/28/21 10:20

Date Received: 06/29/21 15:20

## Lab Sample ID: 500-201619-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:37	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:56	MJG	TAL CHI

# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

**Laboratory References:**

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

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# Accreditation/Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Powerton FAB CCR - Resample

Job ID: 500-201619-1

## Laboratory: Eurofins TestAmerica, Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-22

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