

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 4th 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. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit submitted October 31, 2021. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.

Table 1. Groundwater Analytical 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	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	* < 0.0005	< 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	0.0019	< 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	0.011	< 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	0.0014	< 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	0.0044	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	0.0076	< 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	0.0067	< 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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	< 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	0.00068	< 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	< 0.0005	< 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	< 0.003	0.0014	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	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	0.034	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	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	< 0.0005	< 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	0.00055	< 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	< 0.0005	< 0.01	< 0.0002	0.01	< 0.523	< 0.0025	< 0.002	
	8/24/2021	0.26	98	40	0.18	7.19	56	450	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0069	< 1.08	< 0.0025	< 0.002	
	11/30/2021	0.33	97	42	0.2	7.14	28	410	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.005	< 0.0002	0.0072	< 1.10	< 0.0025	< 0.002	
MW-09 (S) up-gradient	11/18/2015	2.0	63	H	0.19	7.15	H	440	< 0.003	< 0.001	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	< 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	< 0.0005	< 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	< 0.0005	< 0.01	< 0.0002	0.042	< 0.394	< 0.0025	< 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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	< 0.010	< 0.0002	0.035	< 0.377	< 0.0025	< 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	< 0.0005	< 0.010	< 0.0002	0.034	< 0.445	< 0.0025	< 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	< 0.0005	< 0.010	< 0.0002	0.033	< 0.380	< 0.0025	< 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	< 0.0005	< 0.010	< 0.0002	0.028	< 0.160	< 0.0025	< 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	< 0.0005	< 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	< 0.0005	< 0.010	0.00029	0.031	< 0.424	< 0.0025	< 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	< 0.0005	< 0.010	< 0.0002	0.032	< 0.44	< 0.0025	< 0.002	
	5/1/2019	4.6	79	37	0.17	7.11	170	640	< 0.003	< 0.001	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.031	< 0.66	< 0.0025	< 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	0.00076	< 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	< 0.001	< 0.0005	NA	< 0.001	< 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	< 0.0005	< 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	< 0.0005	< 0.010	< 0.0002	0.025	< 0.612	< 0.0025	< 0.002	
	8/25/2021	2.2	80	32	0.17	7.11	130	420	< 0.003	< 0.001	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.022	< 0.579	< 0.0025	< 0.002	
	12/1/2021	3.2	79	32	0.2	7.22	100	570	< 0.003	< 0.001	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.002	< 0.0002	0.028	< 0.365	< 0.0025	< 0.002	
	MW-19A (S) up-gradient	11/18/2016	3.8	89	38	0.13	7.34	120	670	< 0.003	< 0.001	0.084	< 0.001	< 0.0005	< 0.005	< 0.001	0.00068	< 0.01	< 0.0002	0.035	< 0.476	< 0.0025	< 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	0.00061	< 0.01	< 0.0002	0.046	< 0.482	< 0.0025	< 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	0.0012	< 0.01	< 0.0002	0.035	< 0.923	< 0.0025	< 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	< 0.0005	< 0.01	< 0.0002	0.024	< 0.334	< 0.0025	< 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	< 0.0005	< 0.01	< 0.0002	0.041	< 0.370	< 0.0025	< 0.002	
11/6/2017		4.5	86	35	0.17	7.26																	

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	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	< 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	< 0.0005	< 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	0.00076	< 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	FI 0.29	1.4	< 0.001	< 0.0005	< 0.005	0.0034	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	0.0013	< 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	0.00094	< 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	0.00093	< 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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	< 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	0.0012	< 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	< 0.003	0.11	0.6	< 0.001	< 0.0005	< 0.005	0.0026	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	0.0021	< 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	< 0.0005	< 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	< 0.0005	< 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	< 0.0005	0.012	< 0.0002	0.032	1.59	< 0.0025	< 0.002	
8/25/2021	0.9	100	100	0.65	7.03	210	800	< 0.003	0.015	0.16	< 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	< 0.01	< 0.0002	0.03	< 0.472	< 0.0025	< 0.002	
12/1/2021	1.2	100	85	0.67	7.17	^ 160	850	< 0.003	0.0093	0.17	< 0.001	< 0.0005	< 0.005	0.0019	< 0.0005	0.0067	< 0.0002	0.032	1.30	< 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	< 0.0008	< 0.005	< 0.001	< 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	0.0014	0.014	< 0.0002	0.0150	1.11	< 0.0025	< 0.002
	5/20/2016	0.65	200	200	0.49	7.28	550	1400	< 0.003	0.065	0.16	FI < 0.001	0.00077	< 0.005	< 0.001	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	0.0011	0.015	< 0.0002	0.011	3.68	< 0.0025	< 0.002
	11/18/2016	0.83	180	180	0.46	7.34	340	1300	< 0.003	0.23	0.67	< 0.001	0.0028	< 0.005	< 0.001	< 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	0.0042	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	0.0038	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	0.00096	< 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	< 0.0005	0.014	< 0.0002	0.024	0.529	< 0.0025	< 0.002
	11/10/2017	0.94	130	170	0.48	7.38	370	1200	< 0.003	0.50	0.45	< 0.001	0.0015	< 0.005	< 0.001	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	720	1500	< 0.003	0.09	0.1	< 0.001	0.00052	< 0.005	< 0.001	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	0.00072	< 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	< 0.003	0.04	0.13	< 0.001	0.00054	< 0.005	< 0.001	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	< 0.0005	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	< 0.0005	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	< 0.0005	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	0.003	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.016	0.563	< 0.0025	< 0.002	
8/25/2021	0.5	82	130	0.46	7.43	220	740	< 0.003	0.0083	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.019	< 0.502	< 0.0025	< 0.002	
12/1/2021	0.53	72	130	0.52	7.38	^ 170	730	< 0.003	0.018	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.009	< 0.0002	0.017	0.623	< 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	< 0.0005	0.042	H < 0.0002	0.023	< 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	< 0.0005	0.041	< 0.0002	0.035	0.870	< 0.0025	< 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	< 0.0005	0.044	< 0.0002	0.041	< 0.420	< 0.0025	< 0.002
	8/18/2016	1.5	200	FI 170	0.54	6.96	660	1900	< 0.003	0.13	0.11	< 0.001	0.0041	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.027	< 0.672	< 0.0025	< 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	< 0.0005	0.016	< 0.0002	0.018	< 0.570	< 0.0025	< 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	< 0.0005	0.025	< 0.0002	0.027	< 0.392	< 0.0025	< 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	< 0.0005	0.023	< 0.0002	0.023	< 0.456	< 0.0025	< 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	< 0.0005	0.027	< 0.0002	0.03	< 0.347	< 0.0025	< 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	< 0.0005	0.023	< 0.0002	0.032	0.377	< 0.0025	< 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	< 0.0005	0.025	< 0.0002	0.02	< 0.313	< 0.0025	< 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	< 0.0005	0.029	< 0.0002	0.03	0.397	< 0.0025	< 0.002
	8/9/2018	2.3	200	200	0.48	7.06	520	1700	< 0.003	0.008												

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

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/11/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
	11/30/2021	5.43
MW-09	2/24/2021	16.90
	4/9/2021	5.73
	5/13/2021	0.49
	6/2/2021	2.37
	6/29/2021	4.53
	7/19/2021	6.12
	8/25/2021	16.65
	9/30/2021	3.2
	12/1/2021	0.0
MW-19	2/22/2021	0.56
	4/9/2021	4.25
	5/10/2021	1.80
	6/2/2021	5.77
	6/29/2021	8.79
	7/19/2021	7.30
	8/26/2021	30.91
	9/30/2021	2.92
	12/1/2021	0.0
MW-08	2/23/2021	47.30
	4/9/2021	23.05
	5/11/2021	8.93
	6/3/2021	11.11
	6/29/2021	5.48
	7/19/2021	6.86
	8/25/2021	6.80
	9/30/2021	5.01
	12/1/2021	5.01
MW-11	2/25/2021	35.10
	4/9/2021	41.53
	5/13/2021	14.70
	6/3/2021	14.92
	6/29/2021	40.48
	7/19/2021	25.73
	8/25/2021	55.39
	9/30/2021	4.06
	12/1/2021	2.48
MW-12	2/25/2021	26.50
	4/9/2021	66.11
	5/13/2021	5.17
	6/3/2021	106.47
	6/29/2021	21.40
	7/19/2021	22.70
	8/25/2021	12.62
	9/30/2021	18.66
	12/1/2021	29.27
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/29/2021	8.86
MW-18	2/22/2021	3.40
	4/9/2021	4.62
	5/10/2021	2.28
	6/3/2021	2.38
	6/29/2021	3.96
	7/19/2021	5.19
	8/26/2021	7.96
	9/30/2021	37.94
	12/1/2021	5.88

ANALYTICAL REPORT

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

Laboratory Job ID: 500-209044-1
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:
12/17/2021 2:57:18 PM

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

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

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

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Case Narrative

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

Job ID: 500-209044-1

Job ID: 500-209044-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-209044-1

Comments

No additional comments.

Receipt

The samples were received on 11/30/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.8° C, 0.8° C, 1.0° C, 1.3° C, 1.4° C and 2.1° C.

Receipt Exceptions

Received 1 of the 1L Rad bottles empty for sample 1.

Metals

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

General Chemistry

Methods 9038, SM 4500 SO4 E: The low level CCVs associated with the following samples recovered slightly below (87-89%) the lower control limit of 90%: MW-01 (500-209044-3), MW-08 (500-209044-4), MW-18 (500-209044-5), MW-11 (500-209044-6), MW-19 (500-209044-7), Duplicate (500-209044-8), MW-12 (500-209044-9), MW-09 (500-209044-10), (500-209044-D-9 MS) and (500-209044-D-9 MSD). These sample instrument responses were at a level greater than or equal to the LCS spiking level of 20 mg/L. The LCS and high level CCVH all met criteria; therefore, data has been flagged and reported.

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: 500-209044-1

Method	Method Description	Protocol	Laboratory
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: 500-209044-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209044-1	MW-15	Water	11/29/21 15:44	11/30/21 10:40
500-209044-2	MW-17	Water	11/29/21 14:47	11/30/21 10:40
500-209044-3	MW-01	Water	11/30/21 11:15	12/01/21 10:30
500-209044-4	MW-08	Water	12/01/21 09:25	12/02/21 10:25
500-209044-5	MW-18	Water	12/01/21 10:21	12/02/21 10:25
500-209044-6	MW-11	Water	12/01/21 11:55	12/02/21 10:25
500-209044-7	MW-19	Water	12/01/21 12:58	12/02/21 10:25
500-209044-8	Duplicate	Water	12/01/21 00:00	12/02/21 10:25
500-209044-9	MW-12	Water	12/01/21 14:18	12/02/21 10:25
500-209044-10	MW-09	Water	12/01/21 15:15	12/02/21 10:25

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

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-15

Lab Sample ID: 500-209044-1

Date Collected: 11/29/21 15:44

Matrix: Water

Date Received: 11/30/21 10:40

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		12/15/21 10:08	12/16/21 14:09	1
Arsenic	0.0022		0.0010		mg/L		12/15/21 10:08	12/16/21 14:09	1
Barium	0.075		0.0025		mg/L		12/15/21 10:08	12/16/21 14:09	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:09	1
Boron	1.9		0.25		mg/L		12/15/21 10:08	12/17/21 11:55	5
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:09	1
Calcium	220		0.20		mg/L		12/15/21 10:08	12/16/21 14:09	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:09	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:09	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:09	1
Lithium	0.024		0.0020		mg/L		12/15/21 10:08	12/16/21 14:09	1
Molybdenum	0.016		0.0050		mg/L		12/15/21 10:08	12/16/21 14:09	1
Selenium	0.059		0.0025		mg/L		12/15/21 10:08	12/16/21 14:09	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			12/01/21 05:20	1
Chloride	250		20		mg/L			12/01/21 13:41	10
Fluoride	0.48		0.10		mg/L			12/12/21 12:37	1
Sulfate	480		100		mg/L			12/01/21 14:22	20

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-17

Lab Sample ID: 500-209044-2

Date Collected: 11/29/21 14:47

Matrix: Water

Date Received: 11/30/21 10:40

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		12/15/21 10:08	12/16/21 14:12	1
Arsenic	0.0039		0.0010		mg/L		12/15/21 10:08	12/16/21 14:12	1
Barium	0.025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:12	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:12	1
Boron	1.0		0.25		mg/L		12/15/21 10:08	12/17/21 11:59	5
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:12	1
Calcium	140		0.20		mg/L		12/15/21 10:08	12/16/21 14:12	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:12	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:12	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:12	1
Lithium	0.017		0.0020		mg/L		12/15/21 10:08	12/16/21 14:12	1
Molybdenum	0.040		0.0050		mg/L		12/15/21 10:08	12/16/21 14:12	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:12	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			12/01/21 05:22	1
Chloride	150		10		mg/L			12/01/21 12:52	5
Fluoride	0.76		0.10		mg/L			12/12/21 12:52	1
Sulfate	430		100		mg/L			12/01/21 14:23	20

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-01

Lab Sample ID: 500-209044-3

Date Collected: 11/30/21 11:15

Matrix: Water

Date Received: 12/01/21 10:30

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		12/15/21 10:08	12/16/21 14:16	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:16	1
Barium	0.060		0.0025		mg/L		12/15/21 10:08	12/16/21 14:16	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:16	1
Boron	0.33		0.050		mg/L		12/15/21 10:08	12/17/21 12:13	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:16	1
Calcium	97		0.20		mg/L		12/15/21 10:08	12/16/21 14:16	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:16	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:16	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:16	1
Lithium	0.0050		0.0020		mg/L		12/15/21 10:08	12/16/21 14:16	1
Molybdenum	0.0072		0.0050		mg/L		12/15/21 10:08	12/16/21 14:16	1
Selenium	0.0026		0.0025		mg/L		12/15/21 10:08	12/16/21 14:16	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		10		mg/L			12/02/21 05:38	1
Chloride	42		6.0		mg/L			12/07/21 15:26	3
Fluoride	0.20		0.10		mg/L			12/12/21 12:55	1
Sulfate	28	^	5.0		mg/L			12/07/21 17:08	1

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-08

Lab Sample ID: 500-209044-4

Date Collected: 12/01/21 09:25

Matrix: Water

Date Received: 12/02/21 10:25

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		12/15/21 10:08	12/16/21 14:19	1
Arsenic	0.0025		0.0010		mg/L		12/15/21 10:08	12/16/21 14:19	1
Barium	0.11		0.0025		mg/L		12/15/21 10:08	12/16/21 14:19	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:19	1
Boron	0.64		0.050		mg/L		12/15/21 10:08	12/17/21 12:17	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:19	1
Calcium	110		0.20		mg/L		12/15/21 10:08	12/16/21 14:19	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:19	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:19	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:19	1
Lithium	0.023		0.0020		mg/L		12/15/21 10:08	12/16/21 14:19	1
Molybdenum	0.011		0.0050		mg/L		12/15/21 10:08	12/16/21 14:19	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:19	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	690		10		mg/L			12/07/21 03:05	1
Chloride	97		10		mg/L			12/07/21 15:26	5
Fluoride	0.36		0.10		mg/L			12/12/21 12:58	1
Sulfate	66	^	15		mg/L			12/07/21 17:08	3

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-18

Lab Sample ID: 500-209044-5

Date Collected: 12/01/21 10:21

Matrix: Water

Date Received: 12/02/21 10:25

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		12/15/21 10:08	12/16/21 14:23	1
Arsenic	0.0036		0.0010		mg/L		12/15/21 10:08	12/16/21 14:23	1
Barium	0.15		0.0025		mg/L		12/15/21 10:08	12/16/21 14:23	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:23	1
Boron	0.61		0.050		mg/L		12/15/21 10:08	12/17/21 12:20	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:23	1
Calcium	140		0.20		mg/L		12/15/21 10:08	12/16/21 14:23	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:23	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:23	1
Lead	0.00062		0.00050		mg/L		12/15/21 10:08	12/16/21 14:23	1
Lithium	0.015		0.0020		mg/L		12/15/21 10:08	12/16/21 14:23	1
Molybdenum	0.018		0.0050		mg/L		12/15/21 10:08	12/16/21 14:23	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:23	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			12/07/21 03:08	1
Chloride	150		10		mg/L			12/07/21 15:26	5
Fluoride	0.59		0.10		mg/L			12/12/21 13:01	1
Sulfate	310	^	50		mg/L			12/07/21 17:08	10

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-11

Lab Sample ID: 500-209044-6

Date Collected: 12/01/21 11:55

Matrix: Water

Date Received: 12/02/21 10:25

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		12/15/21 10:08	12/16/21 14:26	1
Arsenic	0.0093		0.0010		mg/L		12/15/21 10:08	12/16/21 14:26	1
Barium	0.17		0.0025		mg/L		12/15/21 10:08	12/16/21 14:26	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:26	1
Boron	1.2		0.25		mg/L		12/15/21 10:08	12/17/21 12:23	5
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:26	1
Calcium	100		0.20		mg/L		12/15/21 10:08	12/16/21 14:26	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:26	1
Cobalt	0.0019		0.0010		mg/L		12/15/21 10:08	12/16/21 14:26	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:26	1
Lithium	0.0067		0.0020		mg/L		12/15/21 10:08	12/16/21 14:26	1
Molybdenum	0.032		0.0050		mg/L		12/15/21 10:08	12/16/21 14:26	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:26	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	850		10		mg/L			12/07/21 03:10	1
Chloride	85		10		mg/L			12/07/21 15:27	5
Fluoride	0.67		0.10		mg/L			12/12/21 13:05	1
Sulfate	160	^	25		mg/L			12/07/21 17:09	5

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-19

Lab Sample ID: 500-209044-7

Date Collected: 12/01/21 12:58

Matrix: Water

Date Received: 12/02/21 10:25

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		12/15/21 10:08	12/16/21 14:30	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:30	1
Barium	0.070		0.0025		mg/L		12/15/21 10:08	12/16/21 14:30	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:30	1
Boron	3.5		0.50		mg/L		12/15/21 10:08	12/17/21 12:27	10
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:30	1
Calcium	89		0.20		mg/L		12/15/21 10:08	12/16/21 14:30	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:30	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:30	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:30	1
Lithium	0.0038		0.0020		mg/L		12/15/21 10:08	12/16/21 14:30	1
Molybdenum	0.050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:30	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:30	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	620		10		mg/L			12/07/21 03:13	1
Chloride	31		2.0		mg/L			12/07/21 15:26	1
Fluoride	0.17		0.10		mg/L			12/12/21 13:08	1
Sulfate	120	^	25		mg/L			12/07/21 17:09	5

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: Duplicate

Lab Sample ID: 500-209044-8

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/02/21 10:25

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		12/15/21 10:08	12/16/21 14:45	1
Arsenic	0.0024		0.0010		mg/L		12/15/21 10:08	12/16/21 14:45	1
Barium	0.12		0.0025		mg/L		12/15/21 10:08	12/16/21 14:45	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:45	1
Boron	0.53		0.050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Calcium	120		0.20		mg/L		12/15/21 10:08	12/16/21 14:45	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:45	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Lithium	0.011		0.0020		mg/L		12/15/21 10:08	12/16/21 14:45	1
Molybdenum	0.021		0.0050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:45	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			12/07/21 03:15	1
Chloride	150		10		mg/L			12/07/21 15:27	5
Fluoride	0.59		0.10		mg/L			12/12/21 13:11	1
Sulfate	300	^	50		mg/L			12/07/21 17:10	10

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-12

Lab Sample ID: 500-209044-9

Date Collected: 12/01/21 14:18

Matrix: Water

Date Received: 12/02/21 10:25

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		12/15/21 10:08	12/16/21 14:48	1
Arsenic	0.018		0.0010		mg/L		12/15/21 10:08	12/16/21 14:48	1
Barium	0.045		0.0025		mg/L		12/15/21 10:08	12/16/21 14:48	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:48	1
Boron	0.53		0.050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Calcium	72		0.20		mg/L		12/15/21 10:08	12/16/21 14:48	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:48	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Lithium	0.0090		0.0020		mg/L		12/15/21 10:08	12/16/21 14:48	1
Molybdenum	0.017		0.0050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:48	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730		10		mg/L			12/07/21 03:18	1
Chloride	130		10		mg/L			12/07/21 15:28	5
Fluoride	0.52		0.10		mg/L			12/12/21 13:14	1
Sulfate	170	^	25		mg/L			12/07/21 17:10	5

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-09

Lab Sample ID: 500-209044-10

Date Collected: 12/01/21 15:15

Matrix: Water

Date Received: 12/02/21 10:25

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		12/15/21 10:08	12/16/21 14:52	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:52	1
Barium	0.036		0.0025		mg/L		12/15/21 10:08	12/16/21 14:52	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:52	1
Boron	3.2		0.050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Calcium	79		0.20		mg/L		12/15/21 10:08	12/16/21 14:52	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:52	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Lithium	0.0021		0.0020		mg/L		12/15/21 10:08	12/16/21 14:52	1
Molybdenum	0.028		0.0050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:52	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	570		10		mg/L			12/07/21 03:20	1
Chloride	32		2.0		mg/L			12/07/21 15:29	1
Fluoride	0.20		0.10		mg/L			12/12/21 13:18	1
Sulfate	100	^	25		mg/L			12/07/21 17:12	5

Definitions/Glossary

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

Job ID: 500-209044-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

QC Association Summary

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

Job ID: 500-209044-1

Metals

Prep Batch: 632927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	7470A	
500-209044-2	MW-17	Total/NA	Water	7470A	
500-209044-3	MW-01	Total/NA	Water	7470A	
500-209044-4	MW-08	Total/NA	Water	7470A	
500-209044-5	MW-18	Total/NA	Water	7470A	
500-209044-6	MW-11	Total/NA	Water	7470A	
500-209044-7	MW-19	Total/NA	Water	7470A	
500-209044-8	Duplicate	Total/NA	Water	7470A	
500-209044-9	MW-12	Total/NA	Water	7470A	
500-209044-10	MW-09	Total/NA	Water	7470A	
MB 500-632927/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-632927/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-209044-6 MS	MW-11	Total/NA	Water	7470A	
500-209044-6 MSD	MW-11	Total/NA	Water	7470A	
500-209044-6 DU	MW-11	Total/NA	Water	7470A	

Analysis Batch: 633162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	7470A	632927
500-209044-2	MW-17	Total/NA	Water	7470A	632927
500-209044-3	MW-01	Total/NA	Water	7470A	632927
500-209044-4	MW-08	Total/NA	Water	7470A	632927
500-209044-5	MW-18	Total/NA	Water	7470A	632927
500-209044-6	MW-11	Total/NA	Water	7470A	632927
500-209044-7	MW-19	Total/NA	Water	7470A	632927
500-209044-8	Duplicate	Total/NA	Water	7470A	632927
500-209044-9	MW-12	Total/NA	Water	7470A	632927
500-209044-10	MW-09	Total/NA	Water	7470A	632927
MB 500-632927/12-A	Method Blank	Total/NA	Water	7470A	632927
LCS 500-632927/13-A	Lab Control Sample	Total/NA	Water	7470A	632927
500-209044-6 MS	MW-11	Total/NA	Water	7470A	632927
500-209044-6 MSD	MW-11	Total/NA	Water	7470A	632927
500-209044-6 DU	MW-11	Total/NA	Water	7470A	632927

Prep Batch: 633817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total Recoverable	Water	3005A	
500-209044-2	MW-17	Total Recoverable	Water	3005A	
500-209044-3	MW-01	Total Recoverable	Water	3005A	
500-209044-4	MW-08	Total Recoverable	Water	3005A	
500-209044-5	MW-18	Total Recoverable	Water	3005A	
500-209044-6	MW-11	Total Recoverable	Water	3005A	
500-209044-7	MW-19	Total Recoverable	Water	3005A	
500-209044-8	Duplicate	Total Recoverable	Water	3005A	
500-209044-9	MW-12	Total Recoverable	Water	3005A	
500-209044-10	MW-09	Total Recoverable	Water	3005A	
MB 500-633817/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-633817/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

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

Job ID: 500-209044-1

Metals

Analysis Batch: 634252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total Recoverable	Water	6020A	633817
500-209044-2	MW-17	Total Recoverable	Water	6020A	633817
500-209044-3	MW-01	Total Recoverable	Water	6020A	633817
500-209044-4	MW-08	Total Recoverable	Water	6020A	633817
500-209044-5	MW-18	Total Recoverable	Water	6020A	633817
500-209044-6	MW-11	Total Recoverable	Water	6020A	633817
500-209044-7	MW-19	Total Recoverable	Water	6020A	633817
500-209044-8	Duplicate	Total Recoverable	Water	6020A	633817
500-209044-9	MW-12	Total Recoverable	Water	6020A	633817
500-209044-10	MW-09	Total Recoverable	Water	6020A	633817
MB 500-633817/1-A	Method Blank	Total Recoverable	Water	6020A	633817
LCS 500-633817/2-A	Lab Control Sample	Total Recoverable	Water	6020A	633817

Analysis Batch: 634287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total Recoverable	Water	6020A	633817
500-209044-2	MW-17	Total Recoverable	Water	6020A	633817
500-209044-3	MW-01	Total Recoverable	Water	6020A	633817
500-209044-4	MW-08	Total Recoverable	Water	6020A	633817
500-209044-5	MW-18	Total Recoverable	Water	6020A	633817
500-209044-6	MW-11	Total Recoverable	Water	6020A	633817
500-209044-7	MW-19	Total Recoverable	Water	6020A	633817
MB 500-633817/1-A	Method Blank	Total Recoverable	Water	6020A	633817
LCS 500-633817/2-A	Lab Control Sample	Total Recoverable	Water	6020A	633817

General Chemistry

Analysis Batch: 631530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	SM 2540C	
500-209044-2	MW-17	Total/NA	Water	SM 2540C	
MB 500-631530/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-631530/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 631704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-209044-2	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-631704/84	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-631704/85	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 631705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-209044-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
MB 500-631705/38	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-631705/42	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 631726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-209044-1

General Chemistry (Continued)

Analysis Batch: 631726 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-631726/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-631726/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 632354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-4	MW-08	Total/NA	Water	SM 2540C	
500-209044-5	MW-18	Total/NA	Water	SM 2540C	
500-209044-6	MW-11	Total/NA	Water	SM 2540C	
500-209044-7	MW-19	Total/NA	Water	SM 2540C	
500-209044-8	Duplicate	Total/NA	Water	SM 2540C	
500-209044-9	MW-12	Total/NA	Water	SM 2540C	
500-209044-10	MW-09	Total/NA	Water	SM 2540C	
MB 500-632354/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-632354/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 632730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-209044-4	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-209044-5	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-209044-6	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-209044-7	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-209044-8	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-209044-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-209044-10	MW-09	Total/NA	Water	SM 4500 Cl- E	
MB 500-632730/103	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-632730/160	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-632730/161	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-632730/73	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-209044-9 MS	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-209044-9 MSD	MW-12	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 632731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-209044-4	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-209044-5	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-209044-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-209044-7	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-209044-8	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-209044-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-209044-10	MW-09	Total/NA	Water	SM 4500 SO4 E	
MB 500-632731/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-632731/46	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-632731/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-632731/48	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-209044-9 MS	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-209044-9 MSD	MW-12	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

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

Job ID: 500-209044-1

General Chemistry

Analysis Batch: 633284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	SM 4500 F C	
500-209044-2	MW-17	Total/NA	Water	SM 4500 F C	
500-209044-3	MW-01	Total/NA	Water	SM 4500 F C	
500-209044-4	MW-08	Total/NA	Water	SM 4500 F C	
500-209044-5	MW-18	Total/NA	Water	SM 4500 F C	
500-209044-6	MW-11	Total/NA	Water	SM 4500 F C	
500-209044-7	MW-19	Total/NA	Water	SM 4500 F C	
500-209044-8	Duplicate	Total/NA	Water	SM 4500 F C	
500-209044-9	MW-12	Total/NA	Water	SM 4500 F C	
500-209044-10	MW-09	Total/NA	Water	SM 4500 F C	
MB 500-633284/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-633284/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

Job ID: 500-209044-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-633817/1-A
Matrix: Water
Analysis Batch: 634252

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633817

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 13:58	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 13:58	1
Barium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 13:58	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 13:58	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 13:58	1
Calcium	<0.20		0.20		mg/L		12/15/21 10:08	12/16/21 13:58	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 13:58	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 13:58	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 13:58	1
Lithium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 13:58	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 13:58	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 13:58	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 13:58	1

Lab Sample ID: MB 500-633817/1-A
Matrix: Water
Analysis Batch: 634287

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633817

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		12/15/21 10:08	12/17/21 11:45	1

Lab Sample ID: LCS 500-633817/2-A
Matrix: Water
Analysis Batch: 634252

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	0.500	0.528		mg/L		106	80 - 120
Beryllium	0.0500	0.0496		mg/L		99	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	10.0	9.72		mg/L		97	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.528		mg/L		106	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	0.997		mg/L		100	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

Lab Sample ID: LCS 500-633817/2-A
Matrix: Water
Analysis Batch: 634287

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633817

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

QC Sample Results

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

Job ID: 500-209044-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-632927/12-A
Matrix: Water
Analysis Batch: 633162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:17	1

Lab Sample ID: LCS 500-632927/13-A
Matrix: Water
Analysis Batch: 633162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632927

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

Lab Sample ID: 500-209044-6 MS
Matrix: Water
Analysis Batch: 633162

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 632927

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00105		mg/L		105	75 - 125

Lab Sample ID: 500-209044-6 MSD
Matrix: Water
Analysis Batch: 633162

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 632927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00106		mg/L		106	75 - 125	1	20

Lab Sample ID: 500-209044-6 DU
Matrix: Water
Analysis Batch: 633162

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 632927

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

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

Lab Sample ID: MB 500-631530/1
Matrix: Water
Analysis Batch: 631530

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			12/01/21 04:42	1

Lab Sample ID: LCS 500-631530/2
Matrix: Water
Analysis Batch: 631530

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

QC Sample Results

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

Job ID: 500-209044-1

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

Lab Sample ID: MB 500-631726/1
Matrix: Water
Analysis Batch: 631726

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			12/02/21 04:57	1

Lab Sample ID: LCS 500-631726/2
Matrix: Water
Analysis Batch: 631726

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

Lab Sample ID: MB 500-632354/1
Matrix: Water
Analysis Batch: 632354

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			12/07/21 02:37	1

Lab Sample ID: LCS 500-632354/2
Matrix: Water
Analysis Batch: 632354

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-631704/84
Matrix: Water
Analysis Batch: 631704

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			12/01/21 12:47	1

Lab Sample ID: LCS 500-631704/85
Matrix: Water
Analysis Batch: 631704

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	20.2		mg/L		101	85 - 115

Lab Sample ID: MB 500-632730/103
Matrix: Water
Analysis Batch: 632730

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			12/07/21 15:27	1

QC Sample Results

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

Job ID: 500-209044-1

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

Lab Sample ID: MB 500-632730/160
Matrix: Water
Analysis Batch: 632730

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			12/07/21 15:55	1

Lab Sample ID: LCS 500-632730/161
Matrix: Water
Analysis Batch: 632730

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	22.6		mg/L		113	85 - 115

Lab Sample ID: LCS 500-632730/73
Matrix: Water
Analysis Batch: 632730

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	20.5		mg/L		102	85 - 115

Lab Sample ID: 500-209044-9 MS
Matrix: Water
Analysis Batch: 632730

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	130		20.0	141	4	mg/L		79	75 - 125

Lab Sample ID: 500-209044-9 MSD
Matrix: Water
Analysis Batch: 632730

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	130		20.0	141	4	mg/L		76	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-633284/3
Matrix: Water
Analysis Batch: 633284

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			12/12/21 12:09	1

Lab Sample ID: LCS 500-633284/4
Matrix: Water
Analysis Batch: 633284

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

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

QC Sample Results

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

Job ID: 500-209044-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-631705/38
Matrix: Water
Analysis Batch: 631705

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			12/01/21 14:16	1

Lab Sample ID: LCS 500-631705/42
Matrix: Water
Analysis Batch: 631705

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	21.7		mg/L		109	88 - 123

Lab Sample ID: MB 500-632731/15
Matrix: Water
Analysis Batch: 632731

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			12/07/21 17:01	1

Lab Sample ID: MB 500-632731/46
Matrix: Water
Analysis Batch: 632731

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			12/07/21 17:09	1

Lab Sample ID: LCS 500-632731/16
Matrix: Water
Analysis Batch: 632731

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.8	^+ ^-	mg/L		104	88 - 123

Lab Sample ID: LCS 500-632731/48
Matrix: Water
Analysis Batch: 632731

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	22.8	^-	mg/L		114	88 - 123

Lab Sample ID: 500-209044-9 MS
Matrix: Water
Analysis Batch: 632731

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	170	^-	20.0	184	4 ^-	mg/L		78	75 - 125

Lab Sample ID: 500-209044-9 MSD
Matrix: Water
Analysis Batch: 632731

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	170	^-	20.0	183	4 ^-	mg/L		73	75 - 125	1	20

Eurofins TestAmerica, Chicago

TestAmerica Chicago

2417 Bond Street

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

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other

Client Contact 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		Project Manager Rich Gnat Tel/Fax (262) 781-0475		Site Contact Mitchel Dolan Lab Contact Diana Mockler		Date 11/29/21 Carrier: FedEx		COC No _____ of _____ COCs					
Analysis Turnaround Time <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		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 + Combined 6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sampler	
		Sample Date Sample Time										For Lab Use Only Walk-in Client Lab Sampling	
Sample Identification		500-209044 COC		Job / SDG No 500-209044		Sample Specific Notes							
1	MW-15	11/29	1544	G	W	7	N	N	X	X	X	X	
2	MW-17	11/29	1447	G	W	7			X	X	X	X	
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 #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 0.8 Corr'd		Therm ID No							
Relinquished by Mitchel Dolan <i>MDD</i>		Company KPRG		Date/Time 11/29/2021		Received by FedEx		Company		Date/Time 11/29/21 / 1700			
Relinquished by		Company		Date/Time		Received by		Company		Date/Time			
Relinquished by		Company		Date/Time		Received by Laboratory by <i>Alan Smith</i>		Company <i>EXP</i>		Date/Time 11/30/21		1040	

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

Chain of Custody Record

Regulatory Program: DW NPDES RCRA Other

Client Contact 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		Project Manager Rich Gnat Tel/Fax (262) 781-0475 Analysis Turnaround Time <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		Site Contact Mitchel Dolan Lab Contact Diana Mockler Date Carrier FedEx		COC No _____ of _____ COCs Sampler For Lab Use Only Walk-in Client Lab Sampling Job / SDG No 500-209044											
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	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	500-209044 COC	Sample Specific Notes
3 MW-01		11/30	1115	G	W	1	N	N	X	X	X	X	X	X	X		
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 #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 1.3		Corr'd		Therm ID No									
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 11/30 16:30		Received by FedEx		Company		Date/Time							
Relinquished by		Company		Date/Time		Received by		Company		Date/Time							
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company ETA-GH		Date/Time 12/1/21 1030							

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

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX		Project Manager Rich Gnat Tel/Fax (262) 781-0475		Site Contact Mitchel Dolan Lab Contact Diana Mockler		Date Carrier FedEx		COC No _____ of _____ COCs						
Project Name Powerton CCR Site Powerton Station Pekin IL P O # 4501908159		Analysis Turnaround Time <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)		500-209044 COC						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	903 0 904 0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CLE - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
4	MW-08	12/1	9:25	G	W	7	N	X	X	X	X	X	X	
5	MW-18	12/1	10:21	G	W	7		X	X	X	X	X	X	
6	MW-11	12/1	11:55	G	W	7		X	X	X	X	X	X	
7	MW-19	12/1	12:58	G	W	7		X	X	X	X	X	X	
8	Duplicate	12/1	/	G	W	7		X	X	X	X	X	X	
9	MW-12	12/1	14:18	G	W	7		X	X	X	X	X	X	
10	MW-9	12/1	15:15	G	W	7		X	X	X	X	X	X	
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 #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		Corr'd		Therm ID No					
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 12/1 17:30		Received by FedEx		Company		Date/Time				
Relinquished by		Company		Date/Time		Received by		Company		Date/Time				
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company ETA-CHI		Date/Time 12/21 1025				



500-209044 Wayb

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

SHIP DATE: 29NOV21
ACTWGT: 44.20 LB
CAD: 6994779/SSFE2220
DIMS: 24x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO **TESTAMERICA CHICAGO**
TESTAMERICA CHICAGO
2417 BOND ST

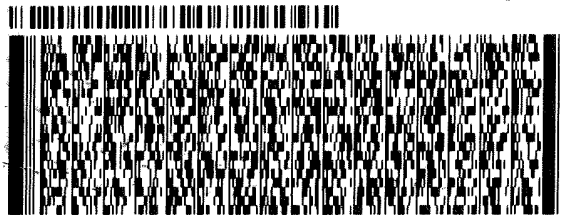
UNIVERSITY PARK IL 60484

(708) 694-6200

REF:

INU:
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FedEx
Express

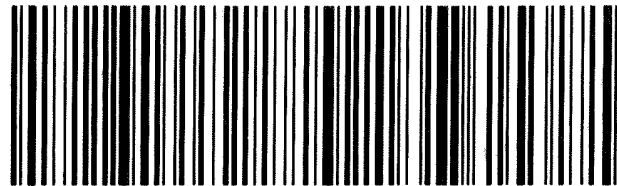


TUE - 30 NOV 11:30A
PRIORITY OVERNIGHT

TRK# 2867 7764 4978
0201

XN JOTA

60484
IL-US ORD



Part # 156297-436 RRDVW2 EXP 04/22

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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: 30NOV21
ACTWGT: 40.00 LB
CAD: 6994779/SSFE2220
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 156297-435 RRDW2 EXP 04/22



500-209044 Wayt

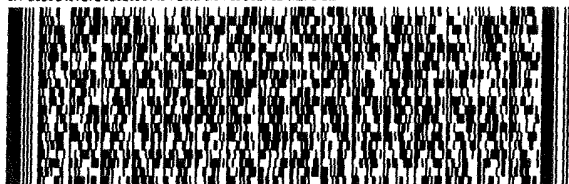
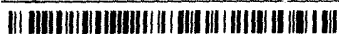
TO **SAMPLE RECEIVING**
EURONFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200
INU:
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DEPT:



FedEx
Express



1 of 5

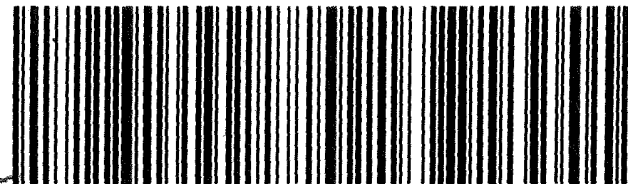
TRK# 2868 5314 7258
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MASTER

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WED - 01 DEC 11:30A
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500-209044 Wayb

ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 58.40 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN
BILL THIRD PARTY

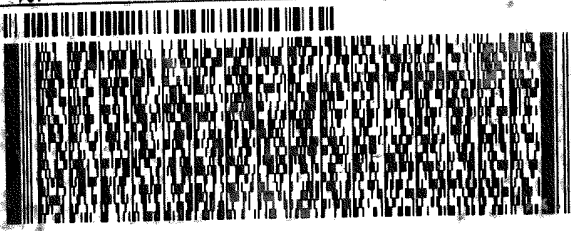
Part # 156297-485-3888-4885-10/22

TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

0.8

UNIVERSITY PARK IL 60484

(555) 555-5555 REF: THU: PO: DEPT:

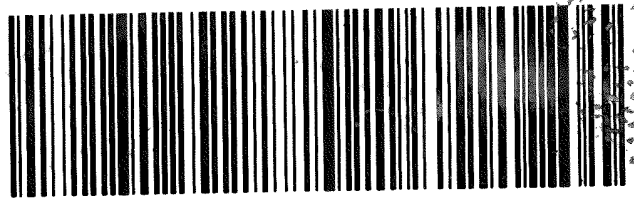


THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

TRK# 2869 2022 5923
0201

XN JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 52.65 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN
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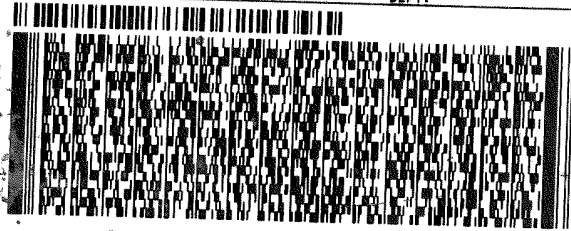
Part # 156297-485-3888-4885-10/22

TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

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UNIVERSITY PARK IL 60484

(555) 555-5555 REF: THU: PO: DEPT:

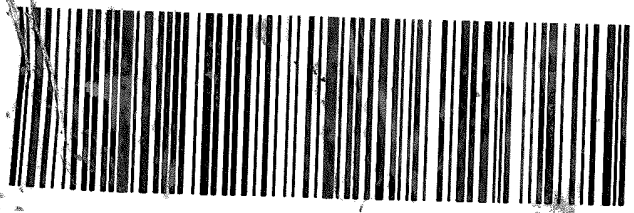


THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

TRK# 2869 2018 7013
0201

XN JOTA

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662

ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 59.65 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN

BILL THIRD PARTY

Part # 156297-4051 (PRINTED) 01/22

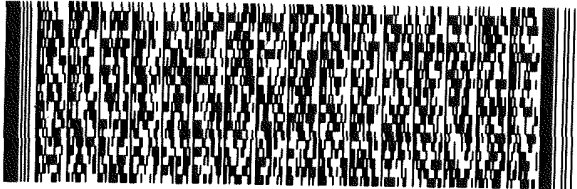
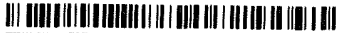
TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(555) 555-5555
INU:
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FedEx
Express



REL#
3785346

TRK#
0201 2869 2026 1564

THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 42.50 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN

BILL THIRD PARTY

Part # 156297-4051 (PRINTED) 01/22

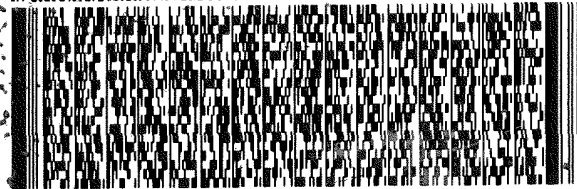
TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(555) 555-5555
INU:
PO:

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DEPT:



FedEx
Express



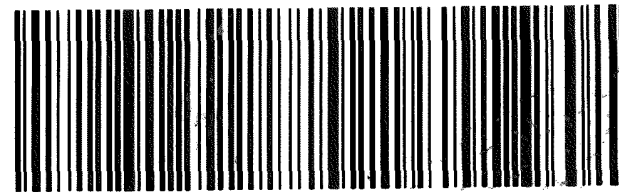
REL#
3785346

TRK#
0201 2869 2014 8976

THU - 02 DEC 11:30A
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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209044-1

Login Number: 209044

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8,1.3,0.8,1.4,2.1,1.0
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.	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 <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 CCR

Job ID: 500-209044-1

Client Sample ID: MW-15

Date Collected: 11/29/21 15:44

Date Received: 11/30/21 10:40

Lab Sample ID: 500-209044-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	634287	12/17/21 11:55	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	631530	12/01/21 05:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	631704	12/01/21 13:41	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 12:37	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	631705	12/01/21 14:22	RES	TAL CHI

Client Sample ID: MW-17

Date Collected: 11/29/21 14:47

Date Received: 11/30/21 10:40

Lab Sample ID: 500-209044-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	634287	12/17/21 11:59	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	631530	12/01/21 05:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	631704	12/01/21 12:52	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 12:52	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	631705	12/01/21 14:23	RES	TAL CHI

Client Sample ID: MW-01

Date Collected: 11/30/21 11:15

Date Received: 12/01/21 10:30

Lab Sample ID: 500-209044-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634287	12/17/21 12:13	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:26	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	631726	12/02/21 05:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	632730	12/07/21 15:26	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 12:55	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	632731	12/07/21 17:08	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-209044-1

Client Sample ID: MW-08

Date Collected: 12/01/21 09:25

Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:19	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634287	12/17/21 12:17	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:28	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:05	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	632730	12/07/21 15:26	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 12:58	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	632731	12/07/21 17:08	RES	TAL CHI

Client Sample ID: MW-18

Date Collected: 12/01/21 10:21

Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634287	12/17/21 12:20	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:08	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	632730	12/07/21 15:26	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:01	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	632731	12/07/21 17:08	RES	TAL CHI

Client Sample ID: MW-11

Date Collected: 12/01/21 11:55

Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	634287	12/17/21 12:23	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:10	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	632730	12/07/21 15:27	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	632731	12/07/21 17:09	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-209044-1

Client Sample ID: MW-19

Lab Sample ID: 500-209044-7

Date Collected: 12/01/21 12:58

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:30	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	634287	12/17/21 12:27	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:50	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:13	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	632730	12/07/21 15:26	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:08	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	632731	12/07/21 17:09	RES	TAL CHI

Client Sample ID: Duplicate

Lab Sample ID: 500-209044-8

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:45	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	632730	12/07/21 15:27	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:11	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	632731	12/07/21 17:10	RES	TAL CHI

Client Sample ID: MW-12

Lab Sample ID: 500-209044-9

Date Collected: 12/01/21 14:18

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:48	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:54	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:18	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	632730	12/07/21 15:28	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:14	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	632731	12/07/21 17:10	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-209044-1

Client Sample ID: MW-09

Lab Sample ID: 500-209044-10

Date Collected: 12/01/21 15:15

Matrix: Water

Date Received: 12/02/21 10:25

<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			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:52	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:56	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	632730	12/07/21 15:29	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:18	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	632731	12/07/21 17:12	RES	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: 500-209044-1

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: 500-209044-2
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:
12/30/2021 8:38:46 AM

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

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

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



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Case Narrative

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

Job ID: 500-209044-2

Job ID: 500-209044-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-209044-2

Comments

No additional comments.

Receipt

The samples were received on 11/30/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.8° C, 0.8° C, 1.0° C, 1.3° C, 1.4° C and 2.1° C.

Receipt Exceptions

Received 1 of the 1L Rad bottles empty for sample 1.

RAD

Method 903.0: Radium 226 batch 540012

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 (500-209044-3), (LCS 160-540012/1-A), (MB 160-540012/9-A), (500-209031-K-3-A) and (500-209031-L-3-A DU)

Method 903.0: Radium 226 batch 539820

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 (500-209044-1), MW-17 (500-209044-2), (LCS 160-539820/1-A), (MB 160-539820/9-A) and (500-209044-E-1-A DU)

Methods 903.0, 9315: Radium 226 batch 540463

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

MW-08 (500-209044-4), MW-18 (500-209044-5), MW-11 (500-209044-6), MW-19 (500-209044-7), Duplicate (500-209044-8), MW-12 (500-209044-9), MW-09 (500-209044-10), (LCS 160-540463/1-A), (MB 160-540463/23-A), (500-209031-J-16-B) and (500-209031-L-16-B DU)

Method 904.0: Radium 228 batch 540013

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 (500-209044-3), (LCS 160-540013/1-A), (MB 160-540013/9-A), (500-209031-K-3-B) and (500-209031-L-3-B DU)

Methods 904.0, 9320: Radium 228 batch 540614

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

MW-08 (500-209044-4), MW-18 (500-209044-5), MW-11 (500-209044-6), MW-19 (500-209044-7), Duplicate (500-209044-8), MW-12 (500-209044-9), MW-09 (500-209044-10), (LCS 160-540614/1-A), (MB 160-540614/23-A), (500-209031-J-16-C) and (500-209031-L-16-C DU)

Method 904.0: Radium 228 batch 539821

Case Narrative

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

Job ID: 500-209044-2

Job ID: 500-209044-2 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

The LCS recovered at (134%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138) per method requirements. The LCS passes, no further action is required (LCS 160-539821/1-A)

Method 904.0: Radium 228 batch 539821

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 (500-209044-1), MW-17 (500-209044-2), (LCS 160-539821/1-A), (MB 160-539821/9-A) and (500-209044-E-1-B DU)

Method PrecSep_0:

MW-15 (500-209044-1), MW-17 (500-209044-2) and (500-209044-E-1 DU)

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

Job ID: 500-209044-2

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: 500-209044-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209044-1	MW-15	Water	11/29/21 15:44	11/30/21 10:40
500-209044-2	MW-17	Water	11/29/21 14:47	11/30/21 10:40
500-209044-3	MW-01	Water	11/30/21 11:15	12/01/21 10:30
500-209044-4	MW-08	Water	12/01/21 09:25	12/02/21 10:25
500-209044-5	MW-18	Water	12/01/21 10:21	12/02/21 10:25
500-209044-6	MW-11	Water	12/01/21 11:55	12/02/21 10:25
500-209044-7	MW-19	Water	12/01/21 12:58	12/02/21 10:25
500-209044-8	Duplicate	Water	12/01/21 00:00	12/02/21 10:25
500-209044-9	MW-12	Water	12/01/21 14:18	12/02/21 10:25
500-209044-10	MW-09	Water	12/01/21 15:15	12/02/21 10:25

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Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-15

Lab Sample ID: 500-209044-1

Date Collected: 11/29/21 15:44

Matrix: Water

Date Received: 11/30/21 10:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.229		0.0960	0.0982	1.00	0.102	pCi/L	12/02/21 11:59	12/27/21 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					12/02/21 11:59	12/27/21 12:08	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	0.420		0.244	0.247	1.00	0.360	pCi/L	12/02/21 12:15	12/16/21 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					12/02/21 12:15	12/16/21 09:32	1
Y Carrier	79.6		40 - 110					12/02/21 12:15	12/16/21 09:32	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	0.649		0.262	0.266	5.00	0.360	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-17

Lab Sample ID: 500-209044-2

Date Collected: 11/29/21 14:47

Matrix: Water

Date Received: 11/30/21 10:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0993	U	0.0725	0.0731	1.00	0.101	pCi/L	12/02/21 11:59	12/27/21 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					12/02/21 11:59	12/27/21 12:08	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	0.793		0.335	0.342	1.00	0.477	pCi/L	12/02/21 12:15	12/16/21 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					12/02/21 12:15	12/16/21 09:32	1
Y Carrier	78.1		40 - 110					12/02/21 12:15	12/16/21 09:32	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	0.892		0.343	0.350	5.00	0.477	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-01
Date Collected: 11/30/21 11:15
Date Received: 12/01/21 10:30

Lab Sample ID: 500-209044-3
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	0.0669	U	0.0852	0.0854	1.00	0.142	pCi/L	12/03/21 09:07	12/27/21 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					12/03/21 09:07	12/27/21 12:05	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.403	0.414	1.00	0.568	pCi/L	12/03/21 09:36	12/13/21 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					12/03/21 09:36	12/13/21 09:43	1
Y Carrier	77.4		40 - 110					12/03/21 09:36	12/13/21 09:43	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		0.412	0.423	5.00	0.568	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-08

Lab Sample ID: 500-209044-4

Date Collected: 12/01/21 09:25

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.338		0.139	0.143	1.00	0.172	pCi/L	12/06/21 13:34	12/29/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					12/06/21 13:34	12/29/21 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	0.678		0.395	0.400	1.00	0.602	pCi/L	12/06/21 15:12	12/16/21 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					12/06/21 15:12	12/16/21 13:38	1
Y Carrier	81.5		40 - 110					12/06/21 15:12	12/16/21 13:38	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	1.02		0.419	0.425	5.00	0.602	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-18

Lab Sample ID: 500-209044-5

Date Collected: 12/01/21 10:21

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193		0.130	0.131	1.00	0.185	pCi/L	12/06/21 13:34	12/29/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					12/06/21 13:34	12/29/21 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	0.270	U	0.312	0.313	1.00	0.514	pCi/L	12/06/21 15:12	12/16/21 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					12/06/21 15:12	12/16/21 13:38	1
Y Carrier	82.2		40 - 110					12/06/21 15:12	12/16/21 13:38	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	0.463	U	0.338	0.339	5.00	0.514	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-11

Lab Sample ID: 500-209044-6

Date Collected: 12/01/21 11:55

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.413		0.157	0.162	1.00	0.178	pCi/L	12/06/21 13:34	12/29/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					12/06/21 13:34	12/29/21 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	0.888		0.373	0.382	1.00	0.513	pCi/L	12/06/21 15:12	12/16/21 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					12/06/21 15:12	12/16/21 13:38	1
Y Carrier	80.4		40 - 110					12/06/21 15:12	12/16/21 13:38	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	1.30		0.405	0.415	5.00	0.513	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-19

Lab Sample ID: 500-209044-7

Date Collected: 12/01/21 12:58

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.271		0.147	0.149	1.00	0.197	pCi/L	12/06/21 13:34	12/29/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					12/06/21 13:34	12/29/21 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	0.912		0.427	0.435	1.00	0.619	pCi/L	12/06/21 15:12	12/16/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					12/06/21 15:12	12/16/21 13:41	1
Y Carrier	80.0		40 - 110					12/06/21 15:12	12/16/21 13:41	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	1.18		0.452	0.460	5.00	0.619	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: Duplicate

Lab Sample ID: 500-209044-8

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178		0.108	0.109	1.00	0.149	pCi/L	12/06/21 13:34	12/29/21 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					12/06/21 13:34	12/29/21 07:22	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	0.431	U	0.320	0.323	1.00	0.502	pCi/L	12/06/21 15:12	12/16/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					12/06/21 15:12	12/16/21 13:41	1
Y Carrier	82.2		40 - 110					12/06/21 15:12	12/16/21 13:41	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	0.608		0.338	0.341	5.00	0.502	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-12

Lab Sample ID: 500-209044-9

Date Collected: 12/01/21 14:18

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114	U	0.0802	0.0808	1.00	0.116	pCi/L	12/06/21 13:34	12/29/21 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					12/06/21 13:34	12/29/21 07:22	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	0.509		0.250	0.254	1.00	0.360	pCi/L	12/06/21 15:12	12/16/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					12/06/21 15:12	12/16/21 13:41	1
Y Carrier	83.0		40 - 110					12/06/21 15:12	12/16/21 13:41	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	0.623		0.263	0.267	5.00	0.360	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-09

Lab Sample ID: 500-209044-10

Date Collected: 12/01/21 15:15

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0705	U	0.0705	0.0708	1.00	0.112	pCi/L	12/06/21 13:34	12/29/21 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					12/06/21 13:34	12/29/21 07:22	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	0.236	U	0.226	0.227	1.00	0.365	pCi/L	12/06/21 15:12	12/16/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					12/06/21 15:12	12/16/21 13:41	1
Y Carrier	83.4		40 - 110					12/06/21 15:12	12/16/21 13:41	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	0.307	U	0.237	0.238	5.00	0.365	pCi/L		12/29/21 21:29	1

Definitions/Glossary

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

Job ID: 500-209044-2

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: 500-209044-2

Rad

Prep Batch: 539820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	PrecSep-21	
500-209044-2	MW-17	Total/NA	Water	PrecSep-21	
MB 160-539820/9-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-539820/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-209044-1 DU	MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 539821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	PrecSep_0	
500-209044-2	MW-17	Total/NA	Water	PrecSep_0	
MB 160-539821/9-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-539821/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-209044-1 DU	MW-15	Total/NA	Water	PrecSep_0	

Prep Batch: 540012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	PrecSep-21	
MB 160-540012/9-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-540012/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 540013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	PrecSep_0	
MB 160-540013/9-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-540013/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 540463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-4	MW-08	Total/NA	Water	PrecSep-21	
500-209044-5	MW-18	Total/NA	Water	PrecSep-21	
500-209044-6	MW-11	Total/NA	Water	PrecSep-21	
500-209044-7	MW-19	Total/NA	Water	PrecSep-21	
500-209044-8	Duplicate	Total/NA	Water	PrecSep-21	
500-209044-9	MW-12	Total/NA	Water	PrecSep-21	
500-209044-10	MW-09	Total/NA	Water	PrecSep-21	
MB 160-540463/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-540463/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 540614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-4	MW-08	Total/NA	Water	PrecSep_0	
500-209044-5	MW-18	Total/NA	Water	PrecSep_0	
500-209044-6	MW-11	Total/NA	Water	PrecSep_0	
500-209044-7	MW-19	Total/NA	Water	PrecSep_0	
500-209044-8	Duplicate	Total/NA	Water	PrecSep_0	
500-209044-9	MW-12	Total/NA	Water	PrecSep_0	
500-209044-10	MW-09	Total/NA	Water	PrecSep_0	
MB 160-540614/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-540614/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-209044-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-539820/9-A
Matrix: Water
Analysis Batch: 543612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539820

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03925	U	0.0632	0.0633	1.00	0.110	pCi/L	12/02/21 11:59	12/27/21 12:12	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					12/02/21 11:59	12/27/21 12:12	1
	92.8									

Lab Sample ID: LCS 160-539820/1-A
Matrix: Water
Analysis Batch: 543808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539820

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.49		1.10	1.00	0.0999	pCi/L	93	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	84.8								

Lab Sample ID: 500-209044-1 DU
Matrix: Water
Analysis Batch: 543808

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 539820

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.229		0.08334	U	0.0684	1.00	0.0985	pCi/L		1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	87.1									

Lab Sample ID: MB 160-540012/9-A
Matrix: Water
Analysis Batch: 543808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540012

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.06688	U	0.0598	0.0601	1.00	0.0892	pCi/L	12/03/21 09:07	12/27/21 12:07	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					12/03/21 09:07	12/27/21 12:07	1
	91.5									

Lab Sample ID: LCS 160-540012/1-A
Matrix: Water
Analysis Batch: 543808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540012

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.64		1.10	1.00	0.0978	pCi/L	94	75 - 125

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QC Sample Results

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

Job ID: 500-209044-2

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

Lab Sample ID: LCS 160-540012/1-A
Matrix: Water
Analysis Batch: 543808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540012

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.3		40 - 110

Lab Sample ID: MB 160-540463/23-A
Matrix: Water
Analysis Batch: 543960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540463

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04688	U	0.0613	0.0615	1.00	0.102	pCi/L	12/06/21 13:34	12/29/21 07:22	1
Carrier	MB	MB	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.0		40 - 110					12/06/21 13:34	12/29/21 07:22	1

Lab Sample ID: LCS 160-540463/1-A
Matrix: Water
Analysis Batch: 543959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540463

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.45		1.08	1.00	0.0935	pCi/L	92	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	93.8		40 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-539821/9-A
Matrix: Water
Analysis Batch: 542362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539821

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.7054		0.306	0.313	1.00	0.442	pCi/L	12/02/21 12:15	12/16/21 09:34	1
Carrier	MB	MB	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					12/02/21 12:15	12/16/21 09:34	1
Y Carrier	81.5		40 - 110					12/02/21 12:15	12/16/21 09:34	1

Lab Sample ID: LCS 160-539821/1-A
Matrix: Water
Analysis Batch: 542362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539821

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	9.05	12.13		1.44	1.00	0.504	pCi/L	134	75 - 125

QC Sample Results

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

Job ID: 500-209044-2

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

Lab Sample ID: LCS 160-539821/1-A
Matrix: Water
Analysis Batch: 542362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539821

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.8		40 - 110
Y Carrier	66.2		40 - 110

Lab Sample ID: 500-209044-1 DU
Matrix: Water
Analysis Batch: 542362

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 539821

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	Limit
	Result	Qual								
Radium-228	0.420		0.7800		0.304	1.00	0.401	pCi/L	0.65	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.1		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: MB 160-540013/9-A
Matrix: Water
Analysis Batch: 541684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540013

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.3020	U	0.236	0.238	1.00	0.370	pCi/L	12/03/21 09:36	12/13/21 09:44	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	91.5		40 - 110	12/03/21 09:36	12/13/21 09:44	1
Y Carrier	80.4		40 - 110	12/03/21 09:36	12/13/21 09:44	1

Lab Sample ID: LCS 160-540013/1-A
Matrix: Water
Analysis Batch: 541682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540013

Analyte	Spike Added	LCS		Total	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual						
Radium-228	9.06	11.12		1.29	1.00	0.413	pCi/L	123	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.3		40 - 110
Y Carrier	77.4		40 - 110

Lab Sample ID: MB 160-540614/23-A
Matrix: Water
Analysis Batch: 542361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540614

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.1162	U	0.222	0.222	1.00	0.378	pCi/L	12/06/21 15:12	12/16/21 13:41	1

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-209044-2

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

Lab Sample ID: MB 160-540614/23-A
Matrix: Water
Analysis Batch: 542361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540614

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	98.0		40 - 110
Y Carrier	87.1		40 - 110

Prepared	Analyzed	Dil Fac
12/06/21 15:12	12/16/21 13:41	1
12/06/21 15:12	12/16/21 13:41	1

Lab Sample ID: LCS 160-540614/1-A
Matrix: Water
Analysis Batch: 542370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540614

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
									75 - 125
Radium-228	9.05	9.618		1.13	1.00	0.369	pCi/L	106	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.8		40 - 110
Y Carrier	80.4		40 - 110

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

Client Contact 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		Project Manager Rich Gnat Tel/Fax (262) 781-0475		Site Contact Mitchel Dolan Date 11/29/21		Lab Contact Diana Mockler Carrier: FedEx		COC No _____ of _____ COCs				
 500-209044 COC		Analysis Turnaround Time <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 + Combined				
						6020A, 7470A 14 Metals & Mercury		6010C - Lithium				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	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 500-209044 Sample Specific Notes	
1	MW-15	11/29	1544	G	W	7	X	X	X	X		
2	MW-17	11/29	1447	G	W	7	X	X	X	X		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							4	4	4	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 #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 0.8 Corr'd _____		Therm ID No _____						
Relinquished by Mitchel Dolan <i>MDD</i>		Company KPRG		Date/Time 11/29/2021		Received by FedEx		Company _____		Date/Time 11/29/21 / 1700		
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____		
Relinquished by _____		Company _____		Date/Time _____		Received by Laboratory by <i>Alan Smith</i>		Company <i>EXP</i>		Date/Time 11/30/21 1040		

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

Chain of Custody Record

Regulatory Program: DW NPDES RCRA Other

Client Contact 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		Project Manager Rich Gnat Tel/Fax (262) 781-0475 Analysis Turnaround Time <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		Site Contact Mitchel Dolan Lab Contact Diana Mockler Date Carrier FedEx		COC No _____ of _____ COCs Sampler For Lab Use Only Walk-in Client Lab Sampling Job / SDG No 500-209044											
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	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	500-209044 COC	Sample Specific Notes
3 MW-01		11/30	1115	G	W	1	N	N	X	X	X	X	X	X	X		
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 #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 1.3		Corr'd		Therm ID No									
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 11/30 16:30		Received by FedEx		Company		Date/Time							
Relinquished by		Company		Date/Time		Received by		Company		Date/Time							
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company ETA-GH		Date/Time 12/1/21 1030							

Chain of Custody Record

Regulatory Program: DW NPDES RCRA Other

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX		Project Manager Rich Gnat Tel/Fax (262) 781-0475		Site Contact Mitchel Dolan Lab Contact Diana Mockler		Date Carrier FedEx		COC No _____ of _____ COCs						
Project Name Powerton CCR Site Powerton Station Pekin IL P O # 4501908159		Analysis Turnaround Time <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)		500-209044 COC						
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	903 0 904 0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CLE - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
4	MW-08	12/1	9:25	G	W	7	N	X	X	X	X	X	X	
5	MW-18	12/1	10:21	G	W	7		X	X	X	X	X	X	
6	MW-11	12/1	11:55	G	W	7		X	X	X	X	X	X	
7	MW-19	12/1	12:58	G	W	7		X	X	X	X	X	X	
8	Duplicate	12/1	/	G	W	7		X	X	X	X	X	X	
9	MW-12	12/1	14:18	G	W	7		X	X	X	X	X	X	
10	MW-9	12/1	15:15	G	W	7		X	X	X	X	X	X	
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 #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		Corr'd		Therm ID No					
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 12/1 17:30		Received by FedEx		Company		Date/Time				
Relinquished by		Company		Date/Time		Received by		Company		Date/Time				
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company ETA-CHI		Date/Time 12/21 1025				



500-209044 Wayb

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

SHIP DATE: 29NOV21
ACTWGT: 44.20 LB
CAD: 6994779/SSFE2220
DIMS: 24x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO **TESTAMERICA CHICAGO**
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

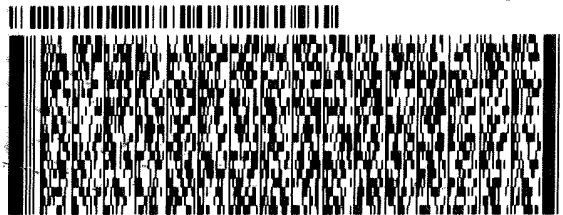
(708) 694-6200

REF:

INU:

DEPT:

PG:



FedEx
Express

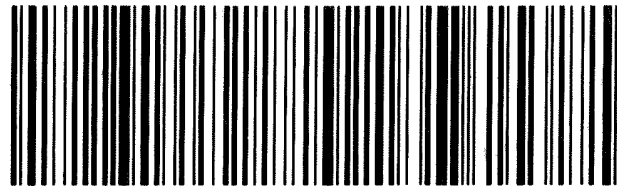


TUE - 30 NOV 11:30A
PRIORITY OVERNIGHT

TRK# 2867 7764 4978
0201

XN JOTA

60484
IL-US ORD



Part # 156297-436 RRDWZ EXP 04/22

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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: 30NOV21
ACTWGT: 40.00 LB
CAD: 6994779/SSFE2220
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 156297-435 RRDW2 EXP 04/22



500-209044 Wayt

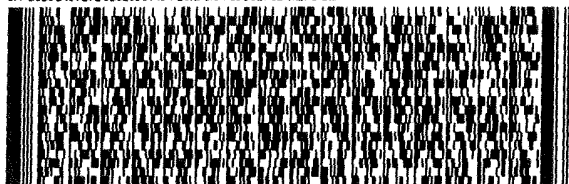
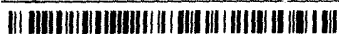
TO **SAMPLE RECEIVING**
EURONFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200
INU:
PO:

REF:

DEPT:



FedEx
Express



1 of 5

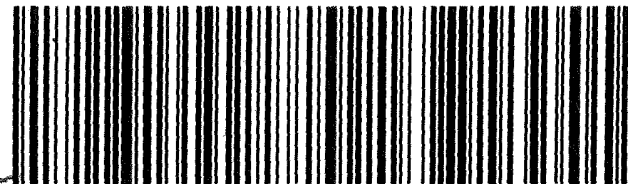
TRK# 2868 5314 7258
0201

MASTER

XN JOTA

WED - 01 DEC 11:30A
PRIORITY OVERNIGHT

60484
IL-US ORD



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UP



500-209044 Wayb

ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 58.40 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN
BILL THIRD PARTY

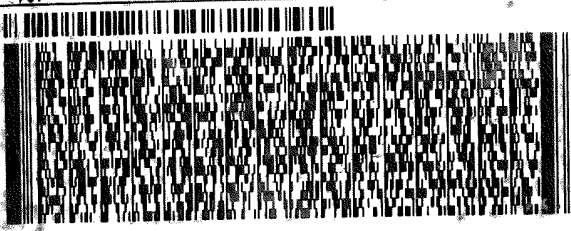
Part # 156297-485-3888-4885-10/22

TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

0.8

UNIVERSITY PARK IL 60484

(555) 555-5555 REF: THU: PO: DEPT:

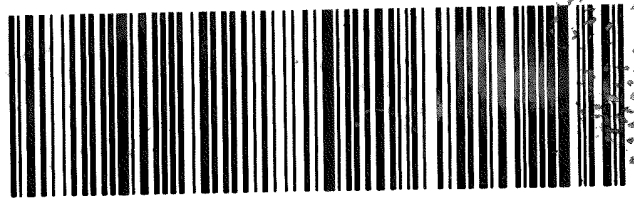


THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

TRK# 2869 2022 5923
0201

XN JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 52.65 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN
BILL THIRD PARTY

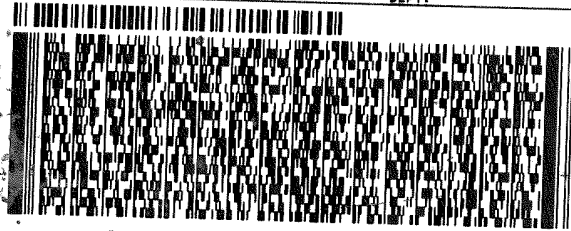
Part # 156297-485-3888-4885-10/22

TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

h1

UNIVERSITY PARK IL 60484

(555) 555-5555 REF: THU: PO: DEPT:

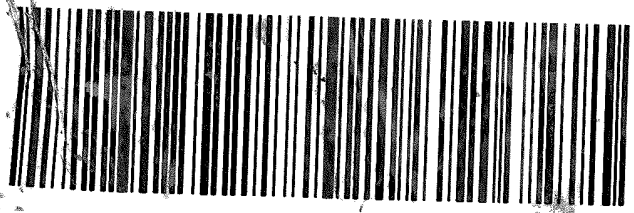


THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

TRK# 2869 2018 7013
0201

XN JOTA

60484
IL-US ORD



662

ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 59.65 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN

BILL THIRD PARTY

Part # 156297-4051 (PRIORITY SERVICE 10/22)

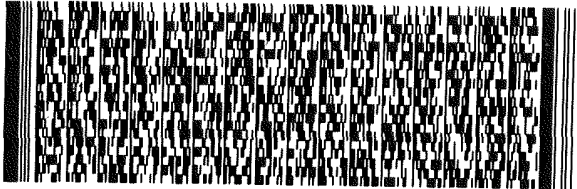
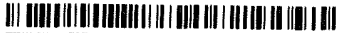
TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(555) 555-5555
INU:
PO:

REF:

DEPT:



FedEx
Express



REL#
3785346

TRK#
0201 2869 2026 1564

THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 42.50 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN

BILL THIRD PARTY

Part # 156297-4051 (PRIORITY SERVICE 10/22)

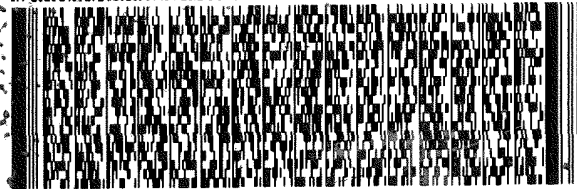
TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(555) 555-5555
INU:
PO:

REF:

DEPT:



FedEx
Express



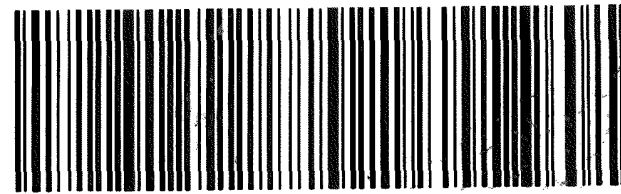
REL#
3785346

TRK#
0201 2869 2014 8976

THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

XN JOTA

AHS
60484
IL-US ORD



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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-154953.1								
Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1								
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-209044-2								
Address: 13715 Rider Trail North,		Due Date Requested: 1/1/2022		Preservation Codes:								
City: Earth City		TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:								
State, Zip: MO, 63045		PO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:										
Project Name: Powerton CCR		Project #: 50011612										
Site: MWG - Powerton		SSOW#:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (H=water, S=solid, O=water/oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	R4226R4228_GFPC	Total Number of Containers	Special Instructions/Note:
MW-15 (500-209044-1)		11/29/21	15:44 Central	Water	Water	X	X	X	X		2	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-17 (500-209044-2)		11/29/21	14:47 Central	Water	Water	X	X	X	X		3	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 & 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>												
Possible Hazard Identification												
Unconfirmed												
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2												
Empty Kit Relinquished by: _____ Date: _____ Time: _____												
Relinquished by: <i>Ami Smith</i> Date: 11/30/21 15:00 Company: <i>ETA</i>												
Relinquished by: FED EX Date/Time: _____ Company: _____												
Relinquished by: _____ Date/Time: _____ Company: _____												
Custody Seals Intact: _____ Custody Seal No.: _____												
Cooler Temperature(s) °C and Other Remarks: _____												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____												
Received by: FED EX Date/Time: _____ Company: _____ Received by: <i>Nature's Edge</i> Date/Time: DEC 01 2021 09:50:14 Company: STL Received by: Autumn R. Johnson Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks: _____												



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:		Mockler, Diana J	Mockler, Diana J		500-155015.1
Shipping/Receiving		Phone:	E-Mail:	State of Origin:	Page:
Company:		Diana.Mockler@Eurofinset.com		Illinois	Page 1 of 1
Address:		Accreditations Required (See note):		Job #:	500-209044-1
13715 Rider Trail North,		NELAP - Illinois		Preservation Codes:	
City:	Earth City	Due Date Requested:	12/21/2021	M - Hexane	
State, Zip:	MO, 63045	TAT Requested (days):		N - None	
Phone:	314-298-8566(Tel) 314-298-8757(Fax)	PO #:		O - AsNaO2	
Email:		WO #:		P - Na2OAS	
Project Name:	Powerton CCR	Project #:	50011612	Q - Na2SO3	
Site:	MWG - Powerton	SSOW#:		R - Na2S2O3	
Sample Identification - Client ID (Lab ID)		Sample Date	11/30/21	Sample Time	11:15 Central
MW-01 (500-209044-3)		Sample Type (C=Comp, G=grab)		Preservation Code:	Water
		Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)			
		Field Filtered Sample (Yes or No)	X	Perform MS/MSD (Yes or No)	X
		90.0/PrecSep_21 Standard Target List	X	90.0/PrecSep_0 Standard Target List	X
		90.0/PrecSep_0 Standard Target List	X	Ra26Ra228_GFPc	
		Total Number of Containers	3	Special Instructions/Note:	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no

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: _____ Time: _____ Method of Shipment: _____
 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: _____

Relinquished by:	<i>Stephanie Hernandez</i>	Company:	ETA - CHI	Received by:	FED EX	Date/Time:	12/11/21 1430
Relinquished by:		Company:		Received by:		Date/Time:	
Relinquished by:		Company:		Received by:		Date/Time:	

Custody Seal No.: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks: _____
 Date: 12/30/2021



Chain of Custody Record



Client Information (Sub Contract Lab)			Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:		
Client Contact: Shipping/Receiving			Phone:		Mockler, Diana J		State of Origin:		500-155058.1		
Company: TestAmerica Laboratories, Inc.			E-Mail: Diana.Mockler@Eurofinset.com		Diana.Mockler@Eurofinset.com		Illinois		Page		
Address: 13715 Rider Trail North, City: Earth City			Due Date Requested: 12/20/2021		Accreditations Required (See note): NELAP - Illinois		Job #:		500-209044-2		
State, Zip: MO 63045			TAT Requested (days):				Preservation Codes:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)			PO #:				Analysis Requested		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		
Email:			WO #:				Total Number of Containers				
Project Name: Powerton CCR			Project #: 50011612				Special Instructions/Note:				
Site: MWG - Powerton			SSOW#:								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sewer, Onsite, etc.)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/Precep_21 Standard Target List	904.0/Precep_0 Standard Target List	R226Ra228 GFPC		
MW-08 (500-209044-4)	12/1/21	09:25 Central	Water	Water	X	X	X	X			3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-18 (500-209044-5)	12/1/21	10:21 Central	Water	Water	X	X	X	X			3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-11 (500-209044-6)	12/1/21	11:55 Central	Water	Water	X	X	X	X			3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-19 (500-209044-7)	12/1/21	12:58 Central	Water	Water	X	X	X	X			3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
Duplicate (500-209044-8)	12/1/21	Central	Water	Water	X	X	X	X			3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-12 (500-209044-9)	12/1/21	14:18 Central	Water	Water	X	X	X	X			3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-09 (500-209044-10)	12/1/21	15:15 Central	Water	Water	X	X	X	X			3 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 & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>											
<p>Possible Hazard Identification</p> <p>Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____ Relinquished by: _____ Date: 12/21/21 15:10 Relinquished by: _____ Date: _____ Relinquished by: _____ Date: _____</p> <p>Received by: FED EX Company: _____ Received by: <i>Autumn R. Johnson</i> Company: ETA Received by: Autumn R. Johnson Company: ETA STL</p>											
<p>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: _____</p>											
<p>Custody Seals Intact: _____ Δ Yes Δ No</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>											

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209044-2

Login Number: 209044

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	0.8,1.3,0.8,1.4,2.1,1.0
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.	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: 500-209044-2

Login Number: 209044

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/01/21 11:53 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: 500-209044-2

Login Number: 209044

List Number: 3

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/02/21 12:38 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	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209044-2

Login Number: 209044

List Number: 4

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/03/21 02:11 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: 500-209044-2

Client Sample ID: MW-15

Lab Sample ID: 500-209044-1

Date Collected: 11/29/21 15:44

Matrix: Water

Date Received: 11/30/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			539820	12/02/21 11:59	LPS	TAL SL
Total/NA	Analysis	903.0		1	543808	12/27/21 12:08	FLC	TAL SL
Total/NA	Prep	PrecSep_0			539821	12/02/21 12:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	542362	12/16/21 09:32	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-17

Lab Sample ID: 500-209044-2

Date Collected: 11/29/21 14:47

Matrix: Water

Date Received: 11/30/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			539820	12/02/21 11:59	LPS	TAL SL
Total/NA	Analysis	903.0		1	543808	12/27/21 12:08	FLC	TAL SL
Total/NA	Prep	PrecSep_0			539821	12/02/21 12:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	542362	12/16/21 09:32	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-01

Lab Sample ID: 500-209044-3

Date Collected: 11/30/21 11:15

Matrix: Water

Date Received: 12/01/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540012	12/03/21 09:07	LPS	TAL SL
Total/NA	Analysis	903.0		1	543808	12/27/21 12:05	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540013	12/03/21 09:36	LPS	TAL SL
Total/NA	Analysis	904.0		1	541682	12/13/21 09:43	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-08

Lab Sample ID: 500-209044-4

Date Collected: 12/01/21 09:25

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543959	12/29/21 07:18	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542370	12/16/21 13:38	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Lab Chronicle

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

Job ID: 500-209044-2

Client Sample ID: MW-18

Lab Sample ID: 500-209044-5

Date Collected: 12/01/21 10:21

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543959	12/29/21 07:18	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542370	12/16/21 13:38	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-11

Lab Sample ID: 500-209044-6

Date Collected: 12/01/21 11:55

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543959	12/29/21 07:18	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542370	12/16/21 13:38	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-19

Lab Sample ID: 500-209044-7

Date Collected: 12/01/21 12:58

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543959	12/29/21 07:18	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542361	12/16/21 13:41	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: Duplicate

Lab Sample ID: 500-209044-8

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543960	12/29/21 07:22	ANW	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542361	12/16/21 13:41	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Lab Chronicle

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

Job ID: 500-209044-2

Client Sample ID: MW-12

Lab Sample ID: 500-209044-9

Date Collected: 12/01/21 14:18

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543960	12/29/21 07:22	ANW	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542361	12/16/21 13:41	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-09

Lab Sample ID: 500-209044-10

Date Collected: 12/01/21 15:15

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543960	12/29/21 07:22	ANW	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542361	12/16/21 13:41	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	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: 500-209044-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-22

- 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: 500-209044-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y
500-209044-1	MW-15	86.8	
500-209044-1 DU	MW-15	87.1	
500-209044-2	MW-17	85.8	
500-209044-3	MW-01	78.4	
500-209044-4	MW-08	72.1	
500-209044-5	MW-18	87.6	
500-209044-6	MW-11	87.6	
500-209044-7	MW-19	83.6	
500-209044-8	Duplicate	97.5	
500-209044-9	MW-12	94.0	
500-209044-10	MW-09	97.5	
LCS 160-539820/1-A	Lab Control Sample	84.8	
LCS 160-540012/1-A	Lab Control Sample	90.3	
LCS 160-540463/1-A	Lab Control Sample	93.8	
MB 160-539820/9-A	Method Blank	92.8	
MB 160-540012/9-A	Method Blank	91.5	
MB 160-540463/23-A	Method Blank	98.0	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
500-209044-1	MW-15	86.8	79.6
500-209044-1 DU	MW-15	87.1	80.4
500-209044-2	MW-17	85.8	78.1
500-209044-3	MW-01	78.4	77.4
500-209044-4	MW-08	72.1	81.5
500-209044-5	MW-18	87.6	82.2
500-209044-6	MW-11	87.6	80.4
500-209044-7	MW-19	83.6	80.0
500-209044-8	Duplicate	97.5	82.2
500-209044-9	MW-12	94.0	83.0
500-209044-10	MW-09	97.5	83.4
LCS 160-539821/1-A	Lab Control Sample	84.8	66.2
LCS 160-540013/1-A	Lab Control Sample	90.3	77.4
LCS 160-540614/1-A	Lab Control Sample	93.8	80.4
MB 160-539821/9-A	Method Blank	92.8	81.5
MB 160-540013/9-A	Method Blank	91.5	80.4
MB 160-540614/23-A	Method Blank	98.0	87.1

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