DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 1st quarter 2022 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. It is noted that the combined radium 226/228 value for upgradient well MW-10 sampling is reported as 6.51 picocuries/L which is an outlier value and above the Groundwater Protection Standard of 5 picocuries/L established under the Federal CCR Rule. This well is being resampled under the Federal Rule assessment program and the resample value will be provided upon receipt from the laboratory.

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-01 up-gradient	11/16/2015	1.0	98	44	0.17	7.07	93	530	< 0.003	< 0.001	0.057	^ < 0.001	< 0.0005	< 0.005	< 0.001	* < 0.0005	< 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	< 0.01	< 0.0002	0.0057	< 0.491	< 0.0025	< 0.002
	11/16/2016	0.18	97	39	0.21	7.22	32	500	< 0.003	0.0051	0.056	< 0.001	< 0.0005	< 0.005	0.0044	0.0082	< 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	0.040	< 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	6.70	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	6.80	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	7.20	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
	8/26/2019	0.57	100	39	0.13	7.15	71	550	< 0.003	< 0.001	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.802	< 0.0025	< 0.002
	2/24/2020	0.28	87	53	0.21	7.19	34	410	< 0.003	< 0.001	0.044	< ^ 0.001	< 0.0005	< 0.005	< 0.001	0.00057	< 0.01	< 0.0002	< 0.005	< 0.478	< 0.0025	< 0.002
	4/28/2020	0.33	110	46	0.19	7.17	41	470	NA	< 0.001	0.051	NA	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002
	12/7/2020	0.59	100	54	0.25	7.22	55	640	NA	< 0.001	0.058	NA	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0052	< 0.542	< 0.0025	< 0.002
	5/11/2021	0.21	85	51	0.21	7.52	37	450	< 0.003	< 0.001	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.01	0.521	< 0.0025	< 0.002
	8/24/2021	0.27	99	40	0.18	7.19	56	430	< 0.003	< 0.001	0.061	< 0.001	< 0.0005	< 0.005	< 0.001	0.00088	< 0.01	< 0.0002	0.007	< 0.463	< 0.0025	< 0.002
	11/30/2021	0.35	84	41	0.19	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	< 0.434	0.0026	< 0.002
	2/9/2022	0.18	96	47	0.17	7.33	48	520	< 0.003	0.0017	0.052	< 0.001	< 0.0005	< 0.005	< 0.001	0.0012	0.003	< 0.0002	0.0074	< 0.527	< 0.0025	< 0.002
MW-10 up-gradient	6/22/2017	0.46	100	48	0.19	6.81	54	1.0	< 0.003	0.0023	0.250	< 0.001	< 0.0005	< 0.005	0.008	0.003	< 0.01	< 0.0002	< 0.005	0.408	0.0042	< 0.002
	8/24/2017	0.32	93	51	0.18	7.14	57	480	< 0.003	0.0020	0.220	< 0.001	< 0.0005	< 0.005	0.007	0.003	< 0.01	< 0.0002	< 0.005	0.564	0.0044	< 0.002
	11/9/2017	0.36	98	48	0.18	6.78	64	500	< 0.003	< 0.0010	0.220	< 0.001	< 0.0005	< 0.005	0.004	< 0.001	< 0.01	< 0.0002	< 0.005	1.020	0.0034	< 0.002
	5/16/2018	0.42	93	44	0.19	7.64	80	530	< 0.003	0.0010	0.220	< 0.001	< 0.0005	< 0.005	0.021	0.001	< 0.01	< 0.0002	< 0.005	1.550	0.0050	< 0.002
	8/8/2018	0.39	99	58	0.19	7.10	60	550	< 0.003	0.0012	0.220	<^ 0.001	< 0.0005	< 0.005	0.014	0.001	< 0.01	< 0.0002	< 0.005	< 0.551	0.0062	< 0.002
	10/30/2018	0.34	110	49	0.22	7.65	49	510	< 0.003	0.0110	0.410	< 0.001	0.0008	0.024	0.047	0.023	0.02	< 0.0002	< 0.005	3.00	0.0046	< 0.002
	2/26/2019	0.39	150	48	0.21	6.77	36	540	< 0.003	0.0220	0.590	< 0.005	0.0015	0.063	0.081	0.036	0.03	< 0.0002	0.007	4.130	0.0041	< 0.002
	5/1/2019	0.35	92	50	0.22	6.81	30	470	< 0.003	0.0023	0.270	< 0.001	< 0.0005	< 0.005	0.011	0.0028	< 0.01	< 0.0002	< 0.005	1.330	0.0037	< 0.002
	8/26/2019	0.30	84	48	0.19	7.09	30	410	< 0.003	0.0017	0.190	< 0.001	< 0.001	< 0.005	0.007	0.0016	< 0.01	< 0.0002	< 0.005	1.540	0.0050	< 0.002
	2/25/2020	1.40	110	45	0.23	6.82	59	500	< 0.003	0.0033	0.280	< ^ 0.001	< 0.0005	0.0086	0.011	0.0046	< 0.01	< 0.0002	< 0.005	1.07	0.0058	< 0.002
	4/28/2020	1.00	110	41	0.24	6.80	64	550	NA	0.0022	0.250	NA	NA	< 0.005	0.0065	0.0017	NA	NA	< 0.005	0.639	0.0054	NA
	12/8/2020	2.40	120	44	0.26	7.11	71	550	NA	0.0015	0.280	NA	NA	< 0.005	0.0089	0.0023	NA	< 0.0002	< 0.005	1.76	0.0031	NA
	5/11/2021	0.64	100	52	0.24	7.01	59	540	< 0.003	0.0011	0.260	< 0.001	< 0.0005	< 0.005	0.008	0.00085	< 0.01	< 0.0002	< 0.005	1.42	0.0049	< 0.002
	8/24/2021	0.42	98	53	0.21	6.87	46	420	< 0.003	0.0017	0.24	< 0.001	< 0.0005	< 0.005	0.0082	0.002	< 0.01	< 0.0002	< 0.005	0.638	0.0051	< 0.002
	11/30/2021	0.42	100	47	0.19	6.99	^- 36	530	< 0.003	0.0015	0.2	< 0.001	< 0.0005	< 0.005	0.0037	0.00051	0.0031	< 0.0002	< 0.005	1.39	< 0.0025	< 0.002
	2/9/2022	0.41	94	48	0.22	6.88	50	530	< 0.003	0.011	0.6	< 0.001	0.00064	0.026	0.054	0.021	0.011	< 0.0002	< 0.005	6.51	0.0045	< 0.002
MW-02 down-gradient	6/20/2017	0.33	90	55	0.19	7.01	47	500	< 0.003	0.0012	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	8/23/2017	V 1.30	86	49	0.19	7.40	61	440	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.833	< 0.0025	< 0.002
	11/7/2017	3.70	98	46	0.17	7.10	88	550	< 0.003	0.0014	0.091	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.309	0.0027	< 0.002
	5/15/2018	0.22	80	45	0.23	7.71	54	500	< 0.003	0.0013	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	0.0004	< 0.005	< 0.408	< 0.0025	< 0.002
	8/7/2018	1.50	89	54	0.15	7.09	51	530	< 0.003	0.0016	0.067	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.622	< 0.0025	< 0.002
	10/30/2018	0.23	86	43	0.17	7.83	34	480	< 0.003	0.0015	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.564	< 0.0025	< 0.002
	2/26/2019	0.07	69	49	0.16	7.82	23	400	< 0.003	0.0026	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.0013	< 0.01	< 0.0002	< 0.005	< 0.425	< 0.0025	< 0.002
	4/30/2019	0.12	79	48	0.16	7.60	30	440	< 0.003	0.0013	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.441	< 0.0025	< 0.002
	8/26/2019	0.51	86	50	0.18	7.13	32	400	< 0.003	0.0011	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	1.180	< 0.0025	< 0.002
	2/24/2020	0.33	89	53	0.20	7.43	37	410	< 0.003	0.0011	0.061	< ^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.485	< 0.0025	< 0.002
	4/28/2020	0.33	90	50	0.20	7.32	41	430	NA	0.0016	0.06	NA	NA	< 0.005	< 0.001	< 0.0005	NA	NA	< 0.005	< 0.54	< 0.0025	NA
	12/9/2020	0.66	100	41	0.15	7.78	64	430	NA	< 0.001	0.076	NA	NA	< 0.005	< 0.001	< 0.0005	NA	< 0.0002	0.0059	< 0.471	< 0.0025	NA
	5/11/2021	0.23	79	51	0.21	7.70	37	370	< 0.003	0.0015	0.057	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0095	< 0.528	< 0.0025	< 0.002
	8/24/2021	0.63	94	47	0.17	7.31	56	340	< 0.003	0.0014	0.073	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.47	< 0.0025	< 0.002
	11/30/2021	0.22	87	41	0.14	7.39	^- 36	380	< 0.003	0.0017	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0045	< 0.0002	< 0.005	0.575	< 0.0025	< 0.002
	2/8/2022	0.27	95	47	0.2	7.69	49	550	< 0.003	0.0017	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0025	< 0.0002	0.0076	0.554	< 0.0025	< 0.002

Notes: All units are in mg/l except pH is in standard units.
V- Serial dilution exceeds control limits.
H- Sample was prepped or analyzed beyond specified holding time
F1 - MS and/or MSD Recovery outside of limits.
* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
NA - Not Analyzed

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-03 down-gradient	6/20/2017	0.4	76	54	0.29	7.26	49	480	< 0.003	0.0013	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.325	< 0.0025	< 0.002
	8/23/2017	0.40	79	52	0.28	7.44	52	430	< 0.003	0.0010	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	1.200	< 0.0025	< 0.002
	11/7/2017	0.31	79	62	0.26	7.04	61	460	< 0.003	0.0013	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.588	< 0.0025	< 0.002
	5/15/2018	0.35	87	66	0.27	7.53	77	520	< 0.003	0.0010	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.489	< 0.0025	< 0.002
	8/7/2018	0.40	82	67	0.22	6.60	49	500	< 0.003	0.0015	0.067	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	10/30/2018	0.20	74	44	0.25	7.84	26	400	< 0.003	0.0014	0.056	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.354	< 0.0025	< 0.002
	2/26/2019	0.06	74	56	0.24	7.49	25	410	< 0.003	0.0013	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.0007	< 0.01	< 0.0002	< 0.005	< 0.399	< 0.0025	< 0.002
	4/30/2019	0.28	74	49	0.22	7.17	38	390	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.668	< 0.0025	< 0.002
	8/26/2019	0.31	75	50	0.26	7.17	14	380	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.444	< 0.0025	< 0.002
	2/24/2020	0.33	87	53	0.22	7.10	65	470	< 0.003	< 0.001	0.066	< ^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.400	< 0.0025	< 0.002
	4/28/2020	0.24	86	46	0.22	7.03	79	410	NA	0.0013	0.066	NA	NA	< 0.005	< 0.001	< 0.0005	NA	NA	< 0.005	< 0.498	0.0036	NA
	12/9/2020	0.86	92	45	0.28	7.46	60	390	NA	< 0.001	0.086	NA	NA	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.432	< 0.0025	NA
	5/11/2021	0.22	75	49	0.21	7.33	38	390	< 0.003	< 0.001	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.519	< 0.0025	< 0.002
	8/24/2021	0.41	81	46	0.25	7.15	32	310	< 0.003	0.0012	0.072	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.444	< 0.0025	< 0.002
	11/30/2021	0.3	76	47	0.26	7.20	^- 23	350	< 0.003	0.0014	0.063	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.004	< 0.0002	< 0.005	< 0.436	< 0.0025	< 0.002
	2/8/2022	0.2	94	47	0.21	7.22	50	550	< 0.003	0.001	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.003	< 0.0002	< 0.005	0.593	< 0.0025	< 0.002
MW-04 down-gradient	6/20/2017	0.5	77	55	0.29	7.45	53	480	< 0.003	< 0.001	0.0025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.343	< 0.0025	< 0.002
	8/28/2017	V 0.73	90	89	0.33	7.13	110	680	< 0.003	< 0.001	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.013	< 0.246	< 0.0025	< 0.002
	11/7/2017	0.60	110	94	0.24	6.80	130	650	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.332	0.0092	< 0.002
	5/15/2018	0.68	87	66	0.27	7.63	100	630	< 0.003	< 0.001	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.661	< 0.0025	< 0.002
	8/7/2018	0.79	84	71	0.32	6.72	49	510	< 0.003	0.0011	0.031	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.006	< 0.334	< 0.0025	< 0.002
	10/30/2018	0.54	100	80	0.24	7.55	91	690	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.423	< 0.0025	< 0.002
	2/26/2019	0.38	79	55	0.25	7.18	52	490	< 0.003	0.0013	0.033	< 0.001	< 0.0005	< 0.005	0.001	0.0012	< 0.01	< 0.0002	< 0.005	0.366	< 0.0025	< 0.002
	4/30/2019	0.36	74	48	0.25	7.08	35	380	< 0.003	< 0.001	0.026	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.684	< 0.0025	< 0.002
	8/26/2019	0.64	91	60	0.24	7.08	14	490	< 0.003	< 0.001	0.032	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.008	1.090	< 0.0025	< 0.002
	2/24/2020	0.34	81	49	0.20	7.05	67	440	< 0.003	< 0.001	0.024	< ^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.595	< 0.0025	< 0.002
	4/28/2020	0.55	76	52	0.27	7.03	47	380	NA	< 0.001	0.025	NA	NA	< 0.005	< 0.001	< 0.0005	NA	NA	< 0.005	< 0.465	< 0.0025	NA
	12/9/2020	0.57	92	88	0.32	7.10	94	580	NA	< 0.001	0.034	NA	NA	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0076	< 0.411	< 0.0025	NA
	5/11/2021	0.61	77	44	0.33	7.22	76	410	< 0.003	< 0.001	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.533	< 0.0025	< 0.002
	8/24/2021	0.72	78	48	0.34	7.12	15	100	< 0.003	< 0.001	0.024	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.014	< 0.427	< 0.0025	< 0.002
	11/30/2021	0.51	99	56	0.25	6.95	^- 62	560	< 0.003	0.0012	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0035	< 0.0002	< 0.005	< 0.419	< 0.0025	< 0.002
	2/8/2022	0.47	88	59	0.29	7.15	52	580	< 0.003	< 0.001	0.03	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0038	< 0.0002	0.006	0.818	< 0.0025	< 0.002
MW-05 down-gradient	5/17/2016	0.70	100	85	0.35	7.08	120	660	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.373	< 0.0025	< 0.002
	8/16/2016	0.69	110	97	0.30	6.85	150	830	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.452	< 0.0025	< 0.002
	11/15/2016	0.93	94	66	0.23	6.96	77	620	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.449	< 0.0025	< 0.002
	2/14/2017	0.79	100	100	0.25	7.25	170	760	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	0.00091	< 0.01	< 0.0002	< 0.005	< 0.359	< 0.0025	< 0.002
	5/1/2017	0.70	100	92	0.28	7.60	170	710	< 0.003	< 0.001	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0066	< 0.439	< 0.0025	< 0.002
	6/20/2017	0.64	89	63	0.28	7.32	78	550	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.365	< 0.0025	< 0.002
	8/28/2017	0.62	110	120	0.33	7.05	210	870	< 0.003	< 0.001	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0085	0.381	< 0.0025	< 0.002
	11/7/2017	0.51	99	110	0.31	6.87	160	990	< 0.003	< 0.001	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	5/15/2018	0.61	130	89	0.29	7.70	210	910	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.390	< 0.0025	< 0.002
	8/7/2018	0.49	110	120	0.32	6.56	180	890	< 0.003	< 0.001	0.054	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0069	0.523	< 0.0025	< 0.002
	4/30/2019	0.56	84	73	0.36	6.96	120	590	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.709	< 0.0025	< 0.002
	8/26/2019	0.57	110	75	0.29	7.01	110	660	< 0.003	< 0.001	0.050	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0067	0.651	< 0.0025	< 0.002
	2/24/2020	0.54	110	70	0.36	6.90	120	H 700	< 0.003	< 0.001	0.057	< ^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0061	0.506	< 0.0025	< 0.002
	4/28/2020	0.49	110	56	0.37	6.87	130	620	NA	0.001	0.052	NA	NA	< 0.005	< 0.001	< 0.0005	NA	NA	0.0074	0.508	< 0.0025	NA
	12/9/2020	0.53	98	78	0.31	6.91	110	670	NA	< 0.001	0.05	NA	NA	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0072	0.569	< 0.0025	NA
	5/11/2021	0.50	83	52	0.38	7.20	100	530	< 0.003	< 0.001	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0062	< 0.525	< 0.0025	< 0.002
	8/24/2021	0.55	88	69	0.32	6.84	99	500	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	0.007	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0073	0.863	< 0.0025	< 0.002
	11/30/2021	0.68	99	67	0.3	6.92	^- 92	620	< 0.003	0.0011	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0052	< 0.0002	0.0051	0.632	< 0.0025	< 0.002
	2/8/2022	0.56	88	68	0.36	6.95	91	650	< 0.003	< 0.001	0.043	< 0.001	0.00066	< 0.005	0.0023	0.0017	0.0051	< 0.0002	0.007	< 0.438	< 0.0025	< 0.002

Notes: All units are in mg/l except pH is in standard units.
V- Serial dilution exceeds control limits.
H- Sample was prepped or analyzed beyond specified holding time

F1 - MS and/or MSD Recovery outside of limits.
* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits

NA - Not Analyzed

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

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/10/2021	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
	2/9/2022	11.5
MW-10	2/23/2021	257.70
	4/9/2021	54.91
	5/11/2021	24.74
	6/2/2021	6.02
	6/28/2021	14.11
	7/19/2021	17.53
	8/24/2021	41.55
	9/30/2021	17.07
	11/30/2021	11.92
	2/9/2022	224.6
MW-02	2/22/2021	19.60
	4/8/2021	4.55
	5/11/2021	1.82
	6/2/2021	2.06
	6/28/2021	2.67
	7/19/2021	3.56
	8/24/2021	5.23
	10/1/2021	2.76
	11/30/2021	0.0
	2/8/2022	0.0
MW-03	2/22/2021	8.20
	4/8/2021	4.00
	5/11/2021	2.68
	6/2/2021	3.63
	6/28/2021	3.32
	7/19/2021	4.22
	8/24/2021	5.75
	10/1/2021	2.45
	11/30/2021	0.0
	2/8/2022	0.0
MW-04	2/22/2021	4.20
	4/8/2021	4.05
	5/11/2021	4.33
	6/2/2021	2.12
	6/28/2021	8.21
	7/19/2021	3.84
	8/24/2021	2.92
	10/1/2021	2.72
	11/30/2021	0.0
	2/8/2022	11.09
MW-05	2/22/2021	1.72
	4/8/2021	4.00
	5/11/2021	1.82
	6/2/2021	1.88
	6/28/2021	3.49
	7/19/2021	8.39
	8/24/2021	3.20
	10/1/2021	3.12
	11/30/2021	0.0
	2/8/2022	0.0

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-212085-1
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:
3/3/2022 11:06:48 AM
Robin Kintz, Project Manager II
(708)534-5200
Robin.Kintz@Eurofinset.com

Designee for

Diana Mockler, Project Manager I
(219)252-7570
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Table of Contents

Case Narrative

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

Job ID: 500-212085-1

Job ID: 500-212085-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-212085-1

Comments
No additional comments.

Receipt
The samples were received on 2/9/2022 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 2.1º C.

Metals
Method 3005A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for <CHOOSE_ONE> preparation/analysis: MW-2 (500-212085-1).

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

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

Method Summary

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

Job ID: 500-212085-1

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 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: 500-212085-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212085-1	MW-2	Water	02/08/22 12:56	02/09/22 16:05
500-212085-2	MW-3	Water	02/08/22 14:29	02/09/22 16:05
500-212085-3	MW-4	Water	02/08/22 15:12	02/09/22 16:05
500-212085-4	MW-5	Water	02/08/22 16:17	02/09/22 16:05
500-212085-5	Duplicate	Water	02/08/22 00:00	02/09/22 16:05
500-212085-6	MW-01	Water	02/09/22 15:02	02/10/22 13:55
500-212085-7	MW-10	Water	02/09/22 13:50	02/10/22 13:55

Client Sample Results

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

Job ID: 500-212085-1

Client Sample ID: MW-2

Date Collected: 02/08/22 12:56
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/18/22 23:57	1
Arsenic	**0.0017**		0.0010		mg/L		02/18/22 10:48	02/18/22 23:57	1
Barium	**0.054**		0.0025		mg/L		02/18/22 10:48	02/18/22 23:57	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/18/22 23:57	1
Boron	**0.27**		0.050		mg/L		02/18/22 10:48	02/23/22 11:59	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/18/22 23:57	1
Calcium	**95**		0.20		mg/L		02/18/22 10:48	02/18/22 23:57	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/18/22 23:57	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/18/22 23:57	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/18/22 23:57	1
Lithium	**0.0025**		0.0020		mg/L		02/18/22 10:48	02/18/22 23:57	1
Molybdenum	**0.0076**		0.0050		mg/L		02/18/22 10:48	02/18/22 23:57	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/18/22 23:57	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/18/22 23:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/14/22 15:50	02/15/22 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**550**		10		mg/L			02/10/22 07:17	1
Chloride	**47**		4.0		mg/L			03/02/22 14:51	2
Fluoride	**0.20**		0.10		mg/L			02/15/22 17:03	1
Sulfate	**49**		5.0		mg/L			03/02/22 17:13	1

Client Sample Results

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

Job ID: 500-212085-1

Client Sample ID: MW-3

Date Collected: 02/08/22 14:29
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:15	1
Arsenic	**0.0010**		0.0010		mg/L		02/18/22 10:48	02/19/22 00:15	1
Barium	**0.058**		0.0025		mg/L		02/18/22 10:48	02/19/22 00:15	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:15	1
Boron	**0.20**		0.050		mg/L		02/18/22 10:48	02/21/22 14:30	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:15	1
Calcium	**94**		0.20		mg/L		02/18/22 10:48	02/19/22 00:15	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:15	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:15	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:15	1
Lithium	**0.0030**		0.0020		mg/L		02/18/22 10:48	02/19/22 00:15	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:15	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:15	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/11/22 14:50	02/14/22 09:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**550**		10		mg/L			02/10/22 07:19	1
Chloride	**47**		2.0		mg/L			03/02/22 14:35	1
Fluoride	**0.21**		0.10		mg/L			02/15/22 17:16	1
Sulfate	**50**		10		mg/L			03/02/22 17:15	2

Client Sample Results

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

Job ID: 500-212085-1

Client Sample ID: MW-4

Date Collected: 02/08/22 15:12
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:18	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:18	1
Barium	**0.030**		0.0025		mg/L		02/18/22 10:48	02/19/22 00:18	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:18	1
Boron	**0.47**		0.050		mg/L		02/18/22 10:48	02/21/22 14:33	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:18	1
Calcium	**88**		0.20		mg/L		02/18/22 10:48	02/19/22 00:18	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:18	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:18	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:18	1
Lithium	**0.0038**		0.0020		mg/L		02/18/22 10:48	02/19/22 00:18	1
Molybdenum	**0.0060**		0.0050		mg/L		02/18/22 10:48	02/19/22 00:18	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:18	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/14/22 15:50	02/15/22 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**580**		10		mg/L			02/10/22 07:22	1
Chloride	**59**		4.0		mg/L			03/02/22 14:51	2
Fluoride	**0.29**		0.10		mg/L			02/15/22 17:22	1
Sulfate	**52**		10		mg/L			03/02/22 17:15	2

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

Job ID: 500-212085-1

Client Sample ID: MW-5

Date Collected: 02/08/22 16:17
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:22	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:22	1
Barium	**0.043**		0.0025		mg/L		02/18/22 10:48	02/19/22 00:22	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:22	1
Boron	**0.56**		0.050		mg/L		02/18/22 10:48	02/21/22 14:37	1
Cadmium	**0.00066**		0.00050		mg/L		02/18/22 10:48	02/19/22 00:22	1
Calcium	**88**		0.20		mg/L		02/18/22 10:48	02/19/22 00:22	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:22	1
Cobalt	**0.0023**		0.0010		mg/L		02/18/22 10:48	02/19/22 00:22	1
Lead	**0.0017**		0.00050		mg/L		02/18/22 10:48	02/19/22 00:22	1
Lithium	**0.0051**		0.0020		mg/L		02/18/22 10:48	02/19/22 00:22	1
Molybdenum	**0.0070**		0.0050		mg/L		02/18/22 10:48	02/19/22 00:22	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:22	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/14/22 15:50	02/15/22 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**650**		10		mg/L			02/10/22 07:24	1
Chloride	**68**		4.0		mg/L			03/02/22 14:51	2
Fluoride	**0.36**		0.10		mg/L			02/15/22 17:26	1
Sulfate	**91**		10		mg/L			03/02/22 17:07	2

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

Job ID: 500-212085-1

Client Sample ID: Duplicate

Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:52	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:52	1
Barium	**0.037**		0.0025		mg/L		02/18/22 10:52	02/18/22 20:52	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:52	1
Boron	**0.56**		0.050		mg/L		02/18/22 10:52	02/21/22 16:37	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:52	1
Calcium	**86**		0.20		mg/L		02/18/22 10:52	02/18/22 20:52	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:52	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:52	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:52	1
Lithium	**0.0043**		0.0020		mg/L		02/18/22 10:52	02/18/22 20:52	1
Molybdenum	**0.0061**		0.0050		mg/L		02/18/22 10:52	02/18/22 20:52	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:52	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/14/22 15:50	02/15/22 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**620**		10		mg/L			02/10/22 07:27	1
Chloride	**68**		4.0		mg/L			03/02/22 14:52	2
Fluoride	**0.36**		0.10		mg/L			02/22/22 12:00	1
Sulfate	**91**		10		mg/L			03/02/22 17:08	2

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

Job ID: 500-212085-1

Client Sample ID: MW-01

Date Collected: 02/09/22 15:02
Date Received: 02/10/22 13:55

Lab Sample ID: 500-212085-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:55	1
Arsenic	**0.0017**		0.0010		mg/L		02/18/22 10:52	02/18/22 20:55	1
Barium	**0.052**		0.0025		mg/L		02/18/22 10:52	02/18/22 20:55	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:55	1
Boron	**0.18**		0.050		mg/L		02/18/22 10:52	02/21/22 16:40	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:55	1
Calcium	**96**		0.20		mg/L		02/18/22 10:52	02/18/22 20:55	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:55	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:55	1
Lead	**0.0012**		0.00050		mg/L		02/18/22 10:52	02/18/22 20:55	1
Lithium	**0.0030**		0.0020		mg/L		02/18/22 10:52	02/18/22 20:55	1
Molybdenum	**0.0074**		0.0050		mg/L		02/18/22 10:52	02/18/22 20:55	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:55	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/14/22 15:50	02/15/22 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**520**		10		mg/L			02/11/22 06:21	1
Chloride	**47**		4.0		mg/L			03/02/22 14:52	2
Fluoride	**0.17**		0.10		mg/L			02/22/22 12:04	1
Sulfate	**48**		5.0		mg/L			03/02/22 17:07	1

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

Job ID: 500-212085-1

Client Sample ID: MW-10

Date Collected: 02/09/22 13:50
Date Received: 02/10/22 13:55

Lab Sample ID: 500-212085-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:58	1
Arsenic	**0.011**		0.0010		mg/L		02/18/22 10:52	02/18/22 20:58	1
Barium	**0.60**		0.0025		mg/L		02/18/22 10:52	02/18/22 20:58	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:58	1
Boron	**0.41**		0.050		mg/L		02/18/22 10:52	02/21/22 16:44	1
Cadmium	**0.00064**		0.00050		mg/L		02/18/22 10:52	02/18/22 20:58	1
Calcium	**94**		0.20		mg/L		02/18/22 10:52	02/18/22 20:58	1
Chromium	**0.026**		0.0050		mg/L		02/18/22 10:52	02/18/22 20:58	1
Cobalt	**0.054**		0.0010		mg/L		02/18/22 10:52	02/18/22 20:58	1
Lead	**0.021**		0.00050		mg/L		02/18/22 10:52	02/18/22 20:58	1
Lithium	**0.011**		0.0020		mg/L		02/18/22 10:52	02/18/22 20:58	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:58	1
Selenium	**0.0045**		0.0025		mg/L		02/18/22 10:52	02/18/22 20:58	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/14/22 15:50	02/15/22 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**530**		10		mg/L			02/11/22 06:23	1
Chloride	**48**		4.0		mg/L			03/02/22 14:52	2
Fluoride	**0.22**		0.10		mg/L			02/22/22 12:08	1
Sulfate	**50**		10		mg/L			03/02/22 17:08	2

Glossary

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

Metals

Prep Batch: 642080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-2	MW-3	Total/NA	Water	7470A	
MB 500-642080/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-642080/23-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 642359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-2	MW-3	Total/NA	Water	7470A	642080
MB 500-642080/12-A	Method Blank	Total/NA	Water	7470A	642080
LCS 500-642080/23-A	Lab Control Sample	Total/NA	Water	7470A	642080

Prep Batch: 642384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total/NA	Water	7470A	
500-212085-3	MW-4	Total/NA	Water	7470A	
500-212085-4	MW-5	Total/NA	Water	7470A	
500-212085-5	Duplicate	Total/NA	Water	7470A	
500-212085-6	MW-01	Total/NA	Water	7470A	
500-212085-7	MW-10	Total/NA	Water	7470A	
MB 500-642384/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-642384/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 642545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total/NA	Water	7470A	642384
500-212085-3	MW-4	Total/NA	Water	7470A	642384
500-212085-4	MW-5	Total/NA	Water	7470A	642384
500-212085-5	Duplicate	Total/NA	Water	7470A	642384
500-212085-6	MW-01	Total/NA	Water	7470A	642384
500-212085-7	MW-10	Total/NA	Water	7470A	642384
MB 500-642384/12-A	Method Blank	Total/NA	Water	7470A	642384
LCS 500-642384/13-A	Lab Control Sample	Total/NA	Water	7470A	642384

Prep Batch: 643201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total Recoverable	Water	3005A	
500-212085-2	MW-3	Total Recoverable	Water	3005A	
500-212085-3	MW-4	Total Recoverable	Water	3005A	
500-212085-4	MW-5	Total Recoverable	Water	3005A	
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 643202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-5	Duplicate	Total Recoverable	Water	3005A	
500-212085-6	MW-01	Total Recoverable	Water	3005A	
500-212085-7	MW-10	Total Recoverable	Water	3005A	
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Metals

Analysis Batch: 643537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total Recoverable	Water	6020A	643201
500-212085-2	MW-3	Total Recoverable	Water	6020A	643201
500-212085-3	MW-4	Total Recoverable	Water	6020A	643201
500-212085-4	MW-5	Total Recoverable	Water	6020A	643201
500-212085-5	Duplicate	Total Recoverable	Water	6020A	643202
500-212085-6	MW-01	Total Recoverable	Water	6020A	643202
500-212085-7	MW-10	Total Recoverable	Water	6020A	643202
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	6020A	643201
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	6020A	643202
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643201
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643202

Analysis Batch: 643796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-2	MW-3	Total Recoverable	Water	6020A	643201
500-212085-3	MW-4	Total Recoverable	Water	6020A	643201
500-212085-4	MW-5	Total Recoverable	Water	6020A	643201
500-212085-5	Duplicate	Total Recoverable	Water	6020A	643202
500-212085-6	MW-01	Total Recoverable	Water	6020A	643202
500-212085-7	MW-10	Total Recoverable	Water	6020A	643202
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	6020A	643201
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	6020A	643202
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643201
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643202

Analysis Batch: 644255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total Recoverable	Water	6020A	643201

General Chemistry

Analysis Batch: 641701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total/NA	Water	SM 2540C	
500-212085-2	MW-3	Total/NA	Water	SM 2540C	
500-212085-3	MW-4	Total/NA	Water	SM 2540C	
500-212085-4	MW-5	Total/NA	Water	SM 2540C	
500-212085-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-641701/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641701/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 641916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-6	MW-01	Total/NA	Water	SM 2540C	
500-212085-7	MW-10	Total/NA	Water	SM 2540C	
MB 500-641916/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641916/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 642706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total/NA	Water	SM 4500 F C	

General Chemistry (Continued)

Analysis Batch: 642706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-2	MW-3	Total/NA	Water	SM 4500 F C	
500-212085-3	MW-4	Total/NA	Water	SM 4500 F C	
500-212085-4	MW-5	Total/NA	Water	SM 4500 F C	
MB 500-642706/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-642706/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-212085-1 MS	MW-2	Total/NA	Water	SM 4500 F C	
500-212085-1 MSD	MW-2	Total/NA	Water	SM 4500 F C	

Analysis Batch: 643855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-212085-6	MW-01	Total/NA	Water	SM 4500 F C	
500-212085-7	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-643855/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-643855/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 645327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total/NA	Water	SM 4500 Cl- E	
500-212085-2	MW-3	Total/NA	Water	SM 4500 Cl- E	
500-212085-3	MW-4	Total/NA	Water	SM 4500 Cl- E	
500-212085-4	MW-5	Total/NA	Water	SM 4500 Cl- E	
500-212085-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-212085-6	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-212085-7	MW-10	Total/NA	Water	SM 4500 Cl- E	
MB 500-645327/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-645327/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 645387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total/NA	Water	SM 4500 SO4 E	
500-212085-2	MW-3	Total/NA	Water	SM 4500 SO4 E	
500-212085-3	MW-4	Total/NA	Water	SM 4500 SO4 E	
500-212085-4	MW-5	Total/NA	Water	SM 4500 SO4 E	
500-212085-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-212085-6	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-212085-7	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-645387/32	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-645387/34	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-643201/1-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/18/22 23:50	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:48	02/18/22 23:50	1
Barium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/18/22 23:50	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/18/22 23:50	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/18/22 23:50	1
Calcium	<0.20		0.20		mg/L		02/18/22 10:48	02/18/22 23:50	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/18/22 23:50	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/18/22 23:50	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/18/22 23:50	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/18/22 23:50	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:48	02/18/22 23:50	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/18/22 23:50	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/18/22 23:50	1

Lab Sample ID: MB 500-643201/1-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		02/18/22 10:48	02/21/22 14:22	1

Lab Sample ID: LCS 500-643201/2-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.479		mg/L		96	80 - 120
Arsenic	0.100	0.0854		mg/L		85	80 - 120
Barium	2.00	1.93		mg/L		96	80 - 120
Beryllium	0.0500	0.0464		mg/L		93	80 - 120
Cadmium	0.0500	0.0475		mg/L		95	80 - 120
Calcium	10.0	9.29		mg/L		93	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.495		mg/L		99	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Lithium	0.500	0.493		mg/L		99	80 - 120
Molybdenum	1.00	0.927		mg/L		93	80 - 120
Selenium	0.100	0.0917		mg/L		92	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-643201/2-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.893		mg/L		89	80 - 120

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

Lab Sample ID: MB 500-643202/1-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:03	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Barium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:03	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Calcium	<0.20		0.20		mg/L		02/18/22 10:52	02/18/22 20:03	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:03	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:03	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:03	1

Lab Sample ID: MB 500-643202/1-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		02/18/22 10:52	02/21/22 16:00	1

Lab Sample ID: LCS 500-643202/2-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.475		mg/L		95	80 - 120
Arsenic	0.100	0.0877		mg/L		88	80 - 120
Barium	2.00	1.95		mg/L		98	80 - 120
Beryllium	0.0500	0.0472		mg/L		94	80 - 120
Cadmium	0.0500	0.0483		mg/L		97	80 - 120
Calcium	10.0	9.77		mg/L		98	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.500	0.496		mg/L		99	80 - 120
Molybdenum	1.00	0.930		mg/L		93	80 - 120
Selenium	0.100	0.0942		mg/L		94	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-643202/2-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.931		mg/L		93	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-642080/12-A
Matrix: Water
Analysis Batch: 642359

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/11/22 14:50	02/14/22 08:35	1

Lab Sample ID: LCS 500-642080/23-A
Matrix: Water
Analysis Batch: 642359

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642080

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00205		mg/L		102	80 - 120

Lab Sample ID: MB 500-642384/12-A
Matrix: Water
Analysis Batch: 642545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 642384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/14/22 15:50	02/15/22 08:10	1

Lab Sample ID: LCS 500-642384/13-A
Matrix: Water
Analysis Batch: 642545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 642384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00210		mg/L		105	80 - 120

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

Lab Sample ID: MB 500-641701/1
Matrix: Water
Analysis Batch: 641701

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			02/10/22 06:28	1

Lab Sample ID: LCS 500-641701/2
Matrix: Water
Analysis Batch: 641701

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	270		mg/L		108	80 - 120

Lab Sample ID: MB 500-641916/1
Matrix: Water
Analysis Batch: 641916

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			02/11/22 06:03	1

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

Lab Sample ID: LCS 500-641916/2
Matrix: Water
Analysis Batch: 641916

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	266		mg/L		106	80 - 120		

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-645327/16
Matrix: Water
Analysis Batch: 645327

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			03/02/22 14:32	1

Lab Sample ID: LCS 500-645327/17
Matrix: Water
Analysis Batch: 645327

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			20.0	19.9		mg/L		100	85 - 115		

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-642706/3
Matrix: Water
Analysis Batch: 642706

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			02/15/22 16:44	1

Lab Sample ID: LCS 500-642706/4
Matrix: Water
Analysis Batch: 642706

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	10.5		mg/L		105	90 - 119		

Lab Sample ID: 500-212085-1 MS
Matrix: Water
Analysis Batch: 642706

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	0.20		5.00	5.22		mg/L		100	75 - 125		

Lab Sample ID: 500-212085-1 MSD
Matrix: Water
Analysis Batch: 642706

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.20		5.00	5.24		mg/L		101	75 - 125	0	20

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MB 500-643855/3
Matrix: Water
Analysis Batch: 643855

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			02/22/22 11:03	1

Lab Sample ID: LCS 500-643855/4
Matrix: Water
Analysis Batch: 643855

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	10.5		mg/L		105	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-645387/32
Matrix: Water
Analysis Batch: 645387

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			03/02/22 17:09	1

Lab Sample ID: LCS 500-645387/34
Matrix: Water
Analysis Batch: 645387

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	21.2		mg/L		106	88 - 123

FAB

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: M. Ross	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-98563-43258 1
Client Contact: Mitchel Dolan	Phone: 630 203 7240	E-Mail: Diana Mockler@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates, Inc.	PWSID:			Job #: 500-212085

Address: 14665 West Lisbon Road, Suite 1A	Due Date Requested
City: Brookfield	TAT Requested (days):
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No
Phone: 262-781-0475(Tel)	PO #: 4502081030
Email: mitcheld@kprginc.com	WO #:
Project Name: Powerton CCR	Project #: 50011612
Site: Illinois	SSOW#:

500-212085 COC

Analysis Requested

Preservation Codes:

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

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note.
	Preservation Code:							D	D	D	D	N		
1	MW-2	2/8	12:56	G	Water			X	X	X	X	X		
2	MW-3		14:29	G	Water			X	X	X	X	X		
3	MW-4		15:12	G	Water			X	X	X	X	X		
4	MW-5		16:17	G	Water			X	X	X	X	X		
5	DUP			G	Water			X	X	X	X	X		
					Water									
					Water									

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

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

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	M. Ross	2/8 1745	KPRG	[signature]	2/9/22 1605	EEA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
	1739729	1.3 +0.8

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: M Ress	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-98563-43258 1
Client Contact: Mitchel Dolan	Phone: 630 203.7240	E-Mail: Diana Mockler@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates, Inc.	PWSID:	Analysis Reque		Job #: 500-212085
Address: 14665 West Lisbon Road, Suite 1A	Due Date Requested			Preservation Codes.
City: Brookfield	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-781-0475(Tel)	PO #: 4502081030			
Email: mitcheld@kprginc.com	WO #:			Other:
Project Name: Powerton CCR	Project #: 50011612			
Site: Illinois	SSOW#:			

500-212085 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	D	D	D	N		
6 MW-1	2/9	15:02	G	Water			X	X	X	X	X		
7 MW-10	2/9	13:50	G	Water			X	X	X	X	X		
				Water									
				Water									
				Water									
				Water									
				Water									

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

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

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
M. Ress	2/9 16:00		Stephanie Hernandez	2/10/22 1355	EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No: 1802642	Cooler Temperature(s) °C and Other Remarks: 2.1

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 09FEB22
ACTWGT: 60.00 LB
CAD: 6994779/SSFE2220
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 10/22

TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484
(000) 000-0000 REF:
INV:
PO: DEPT:

FedEx Express

1 of 3

TRK# 0201 **2896 6850 2775**

FRI - 11 FEB 4:30P
**** 2DAY ****

MASTER

4Z QMCKQ

60484
IL-US **ORD**

500-212085 Wayb

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212085-1

Login Number: 212085
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8,2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-212085-1

Client Sample ID: MW-2

Lab Sample ID: 500-212085-1

Date Collected: 02/08/22 12:56

Matrix: Water

Date Received: 02/09/22 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 23:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	644255	02/23/22 11:59	FXG	TAL CHI
Total/NA	Prep	7470A			642384	02/14/22 15:50	MJG	TAL CHI
Total/NA	Analysis	7470A		1	642545	02/15/22 08:14	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	645327	03/02/22 14:51	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:03	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	645387	03/02/22 17:13	PFK	TAL CHI

Client Sample ID: MW-3

Lab Sample ID: 500-212085-2

Date Collected: 02/08/22 14:29

Matrix: Water

Date Received: 02/09/22 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:15	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 14:30	FXG	TAL CHI
Total/NA	Prep	7470A			642080	02/11/22 14:50	MJG	TAL CHI
Total/NA	Analysis	7470A		1	642359	02/14/22 09:05	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	645327	03/02/22 14:35	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:16	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	645387	03/02/22 17:15	PFK	TAL CHI

Client Sample ID: MW-4

Lab Sample ID: 500-212085-3

Date Collected: 02/08/22 15:12

Matrix: Water

Date Received: 02/09/22 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:18	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 14:33	FXG	TAL CHI
Total/NA	Prep	7470A			642384	02/14/22 15:50	MJG	TAL CHI
Total/NA	Analysis	7470A		1	642545	02/15/22 08:16	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	645327	03/02/22 14:51	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:22	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	645387	03/02/22 17:15	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-212085-1

Client Sample ID: MW-5

Lab Sample ID: 500-212085-4

Date Collected: 02/08/22 16:17

Matrix: Water

Date Received: 02/09/22 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:22	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 14:37	FXG	TAL CHI
Total/NA	Prep	7470A			642384	02/14/22 15:50	MJG	TAL CHI
Total/NA	Analysis	7470A		1	642545	02/15/22 08:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:24	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	645327	03/02/22 14:51	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:26	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	645387	03/02/22 17:07	PFK	TAL CHI

Client Sample ID: Duplicate

Lab Sample ID: 500-212085-5

Date Collected: 02/08/22 00:00

Matrix: Water

Date Received: 02/09/22 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:52	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 16:37	FXG	TAL CHI
Total/NA	Prep	7470A			642384	02/14/22 15:50	MJG	TAL CHI
Total/NA	Analysis	7470A		1	642545	02/15/22 08:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	645327	03/02/22 14:52	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	643855	02/22/22 12:00	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	645387	03/02/22 17:08	PFK	TAL CHI

Client Sample ID: MW-01

Lab Sample ID: 500-212085-6

Date Collected: 02/09/22 15:02

Matrix: Water

Date Received: 02/10/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:55	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 16:40	FXG	TAL CHI
Total/NA	Prep	7470A			642384	02/14/22 15:50	MJG	TAL CHI
Total/NA	Analysis	7470A		1	642545	02/15/22 08:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641916	02/11/22 06:21	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	645327	03/02/22 14:52	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	643855	02/22/22 12:04	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	645387	03/02/22 17:07	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-212085-1

Client Sample ID: MW-10

Date Collected: 02/09/22 13:50
Date Received: 02/10/22 13:55

Lab Sample ID: 500-212085-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:58	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 16:44	FXG	TAL CHI
Total/NA	Prep	7470A			642384	02/14/22 15:50	MJG	TAL CHI
Total/NA	Analysis	7470A		1	642545	02/15/22 08:25	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641916	02/11/22 06:23	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	645327	03/02/22 14:52	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	643855	02/22/22 12:08	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	645387	03/02/22 17:08	PFK	TAL CHI

Laboratory References:

TAL CHI = Eurofins 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: 500-212085-1

Laboratory: Eurofins Chicago

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

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212085-2
Client Project/Site: Powerton CCR FAB

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

Attn: Richard Gnat

Diana Mockler

Authorized for release by:
3/17/2022 8:38:30 AM

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

Table of Contents

Job ID: 500-212085-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-212085-2

Comments
No additional comments.

Receipt
The samples were received on 2/9/2022 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 2.1º C.

RAD
Method 903.0: Radium 226 Batch 160-551587:

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-2 (500-212085-1), MW-3 (500-212085-2), MW-4 (500-212085-3), MW-5 (500-212085-4), Duplicate (500-212085-5), MW-01 (500-212085-6), MW-10 (500-212085-7), (LCS 160-551587/1-A), (MB 160-551587/21-A), (500-212083-E-1-A) and (500-212083-D-1-A DU)

Method 904.0: Radium 228 batch 551588
The detection goal was not met for the following sample(s). Samples was prepped at a reduced volume due to the presence of matrix interferences: MW-10 (500-212085-7). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium 228 batch 551588
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-2 (500-212085-1), MW-3 (500-212085-2), MW-4 (500-212085-3), MW-5 (500-212085-4), Duplicate (500-212085-5), MW-01 (500-212085-6), MW-10 (500-212085-7), (LCS 160-551588/1-A), (MB 160-551588/21-A), (500-212083-E-1-B) and (500-212083-D-1-B DU)

Method 904.0: Radium 228 batch 551588
The LCS recovered at (129%). 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 160-551588/1-A)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

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

Job ID: 500-212085-2

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 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 FAB

Job ID: 500-212085-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212085-1	MW-2	Water	02/08/22 12:56	02/09/22 16:05
500-212085-2	MW-3	Water	02/08/22 14:29	02/09/22 16:05
500-212085-3	MW-4	Water	02/08/22 15:12	02/09/22 16:05
500-212085-4	MW-5	Water	02/08/22 16:17	02/09/22 16:05
500-212085-5	Duplicate	Water	02/08/22 00:00	02/09/22 16:05
500-212085-6	MW-01	Water	02/09/22 15:02	02/10/22 13:55
500-212085-7	MW-10	Water	02/09/22 13:50	02/10/22 13:55

Client Sample Results

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

Job ID: 500-212085-2

Client Sample ID: MW-2

Date Collected: 02/08/22 12:56
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-1

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0594	U	0.0857	0.0859	1.00	0.146	pCi/L	02/21/22 09:25	03/15/22 13:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.8*		*40 - 110*	*02/21/22 09:25*	*03/15/22 13:52*	*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	0.133	U	0.320	0.320	1.00	0.554	pCi/L	02/21/22 09:59	03/04/22 12:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.8*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:44*	*1*
Y Carrier	*84.1*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:44*	*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	0.192	U	0.331	0.331	5.00	0.554	pCi/L		03/16/22 17:51	1

Client Sample Results

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

Job ID: 500-212085-2

Client Sample ID: MW-3

Date Collected: 02/08/22 14:29
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-2

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0307	U	0.0771	0.0772	1.00	0.142	pCi/L	02/21/22 09:25	03/15/22 13:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*40 - 110*	*02/21/22 09:25*	*03/15/22 13:52*	*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	**0.563**		0.327	0.331	1.00	0.486	pCi/L	02/21/22 09:59	03/04/22 12:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:44*	*1*
Y Carrier	*83.4*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:44*	*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	**0.593**		0.336	0.340	5.00	0.486	pCi/L		03/16/22 17:51	1

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

Job ID: 500-212085-2

Client Sample ID: MW-4

Date Collected: 02/08/22 15:12
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-3

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	0.0473	U	0.0813	0.0814	1.00	0.143	pCi/L	02/21/22 09:25	03/15/22 13:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*55.6*		*40 - 110*	*02/21/22 09:25*	*03/15/22 13:53*	*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	0.167	U	0.476	0.476	1.00	0.818	pCi/L	02/21/22 09:59	03/04/22 12:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*55.6*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:44*	*1*
Y Carrier	*83.0*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:44*	*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	0.214	U	0.483	0.483	5.00	0.818	pCi/L		03/16/22 17:51	1

Client Sample Results

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

Job ID: 500-212085-2

Client Sample ID: MW-5

Date Collected: 02/08/22 16:17
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-4

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.127		0.0749	0.0757	1.00	0.0950	pCi/L	02/21/22 09:25	03/15/22 13:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*40 - 110*	*02/21/22 09:25*	*03/15/22 13:53*	*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	0.0504	U	0.250	0.250	1.00	0.438	pCi/L	02/21/22 09:59	03/04/22 12:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:46*	*1*
Y Carrier	*84.5*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:46*	*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	0.177	U	0.261	0.261	5.00	0.438	pCi/L		03/16/22 17:51	1

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

Job ID: 500-212085-2

Client Sample ID: Duplicate

Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-5

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0426	U	0.0556	0.0557	1.00	0.0926	pCi/L	02/21/22 09:25	03/15/22 13:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*02/21/22 09:25*	*03/15/22 13:53*	*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	0.127	U	0.242	0.242	1.00	0.412	pCi/L	02/21/22 09:59	03/04/22 12:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:46*	*1*
Y Carrier	*85.6*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:46*	*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	0.170	U	0.248	0.248	5.00	0.412	pCi/L		03/16/22 17:51	1

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

Job ID: 500-212085-2

Client Sample ID: MW-01

Date Collected: 02/09/22 15:02
Date Received: 02/10/22 13:55

Lab Sample ID: 500-212085-6

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0805	U	0.0784	0.0788	1.00	0.120	pCi/L	02/21/22 09:25	03/15/22 13:53	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*40 - 110*	*02/21/22 09:25*	*03/15/22 13:53*	*1*

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.262	U	0.319	0.320	1.00	0.527	pCi/L	02/21/22 09:59	03/04/22 12:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.0*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:47*	*1*
Y Carrier	*84.5*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:47*	*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	0.343	U	0.328	0.330	5.00	0.527	pCi/L		03/16/22 17:51	1

Client Sample ID: MW-10

Date Collected: 02/09/22 13:50
Date Received: 02/10/22 13:55

Lab Sample ID: 500-212085-7

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**2.55**		0.696	0.733	1.00	0.673	pCi/L	02/21/22 09:25	03/15/22 13:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.8*		*40 - 110*	*02/21/22 09:25*	*03/15/22 13:47*	*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	**3.96**	**G**	1.50	1.55	1.00	2.08	pCi/L	02/21/22 09:59	03/04/22 12:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*69.8*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:47*	*1*
Y Carrier	*86.0*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:47*	*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	**6.51**		1.65	1.71	5.00	2.08	pCi/L		03/16/22 17:51	1

Definitions/Glossary

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

Job ID: 500-212085-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

Rad

Prep Batch: 551587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total/NA	Water	PrecSep-21	
500-212085-2	MW-3	Total/NA	Water	PrecSep-21	
500-212085-3	MW-4	Total/NA	Water	PrecSep-21	
500-212085-4	MW-5	Total/NA	Water	PrecSep-21	
500-212085-5	Duplicate	Total/NA	Water	PrecSep-21	
500-212085-6	MW-01	Total/NA	Water	PrecSep-21	
500-212085-7	MW-10	Total/NA	Water	PrecSep-21	
MB 160-551587/21-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-551587/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 551588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212085-1	MW-2	Total/NA	Water	PrecSep_0	
500-212085-2	MW-3	Total/NA	Water	PrecSep_0	
500-212085-3	MW-4	Total/NA	Water	PrecSep_0	
500-212085-4	MW-5	Total/NA	Water	PrecSep_0	
500-212085-5	Duplicate	Total/NA	Water	PrecSep_0	
500-212085-6	MW-01	Total/NA	Water	PrecSep_0	
500-212085-7	MW-10	Total/NA	Water	PrecSep_0	
MB 160-551588/21-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-551588/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-551587/21-A
Matrix: Water
Analysis Batch: 555442

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551587

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.002898	U	0.0547	0.0547	1.00	0.110	pCi/L	02/21/22 09:25	03/15/22 13:48	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*40 - 110*	*02/21/22 09:25*	*03/15/22 13:48*	*1*

Lab Sample ID: LCS 160-551587/1-A
Matrix: Water
Analysis Batch: 555442

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551587

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.3	11.04		1.16	1.00	0.151	pCi/L	97	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.5*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-551588/21-A
Matrix: Water
Analysis Batch: 553453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 551588

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.03136	U	0.206	0.206	1.00	0.367	pCi/L	02/21/22 09:59	03/04/22 12:47	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.0*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:47*	*1*
Y Carrier	*86.7*		*40 - 110*	*02/21/22 09:59*	*03/04/22 12:47*	*1*

Lab Sample ID: LCS 160-551588/1-A
Matrix: Water
Analysis Batch: 553454

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 551588

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			8.82	11.36		1.31	1.00	0.440	pCi/L	129	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*87.5*		*40 - 110*
Y Carrier	*83.7*		*40 - 110*

FAB

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: M. Ross	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-98563-43258 1
Client Contact: Mitchel Dolan	Phone: 630 203 7240	E-Mail: Diana Mockler@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates, Inc.	PWSID:			Job #: 500-212085

Address: 14665 West Lisbon Road, Suite 1A	Due Date Requested
City: Brookfield	TAT Requested (days):
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No
Phone: 262-781-0475(Tel)	PO #: 4502081030
Email: mitchell@kprginc.com	WO #:
Project Name: Powerton CCR	Project #: 50011612
Site: Illinois	SSOW#:

500-212085 COC

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note.
			Preservation Code:				D	D	D	D	N		
1 MW-2	2/8	12:56	G	Water			X	X	X	X	X		
2 MW-3		14:29	G	Water			X	X	X	X	X		
3 MW-4		15:12	G	Water			X	X	X	X	X		
4 MW-5		16:17	G	Water			X	X	X	X	X		
5 DUP			G	Water			X	X	X	X	X		
				Water									
				Water									

Preservation Codes:

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

Other:

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

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

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	M. Ross	2/8 1745	KPRG	[signature]	2/9/22 1605	EEA
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:
	1739729	1.3 +0.8

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: M Ress	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-98563-43258 1
Client Contact: Mitchel Dolan	Phone: 630 203.7240	E-Mail: Diana Mockler@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates, Inc.	PWSID:	Analysis Reque		Job #: 500-212085
Address: 14665 West Lisbon Road, Suite 1A	Due Date Requested			Preservation Codes.
City: Brookfield	TAT Requested (days):			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-781-0475(Tel)	PO #: 4502081030			
Email: mitcheld@kprginc.com	WO #:			Other:
Project Name: Powerton CCR	Project #: 50011612			
Site: Illinois	SSOW#:			

500-212085 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E										Total Number of containers	Special Instructions/Note:
Preservation Code:							D	D	D	D	N											
6 MW-1	2/9	15:02	G	Water			X	X	X	X	X											
7 MW-10	2/9	13:50	G	Water			X	X	X	X	X											
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		
				Water																		

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

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

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
M. Ress	2/9 16:00		Stephanie Hernandez	2/10/22 1355	EETA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No: 1802642	Cooler Temperature(s) °C and Other Remarks: 2.1

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 09FEB22
ACTWGT: 60.00 LB
CAD: 6994779/SSFE2220
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-435 RRDB EXP 10/22

TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF:
INV:
PO: DEPT:

FedEx Express

1 of 3

TRK# 0201 **2896 6850 2775**

FRI - 11 FEB 4:30P
**** 2DAY ****

MASTER

4Z QMCKQ

60484
IL-US **ORD**

500-212085 Wayb

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-157130.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-212085-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 3/1/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Powerton CCR	Project #: 50011612			
Site: MWG - Powerton	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - 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)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-2 (500-212085-1)	2/8/22	12:56 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-3 (500-212085-2)	2/8/22	14:29 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-4 (500-212085-3)	2/8/22	15:12 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-5 (500-212085-4)	2/8/22	16:17 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
Duplicate (500-212085-5)	2/8/22	Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-01 (500-212085-6)	2/9/22	15:02 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-10 (500-212085-7)	2/9/22	13:50 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stephanie Hernandez FED EX	2/10/22 1630	EETA	FED EX		
Relinquished by:	Date/Time:	Company	Received by: Siena Worthington	Date/Time: 2-11-22 0945	Company ETNSR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212085-2

Login Number: 212085
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8,2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212085-2

Login Number: 212085
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 02/12/22 08:58 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	

Lab Chronicle

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

Job ID: 500-212085-2

Client Sample ID: MW-2
Date Collected: 02/08/22 12:56
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:52	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:44	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-3
Date Collected: 02/08/22 14:29
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:52	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:44	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-4
Date Collected: 02/08/22 15:12
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:53	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553454	03/04/22 12:44	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-5
Date Collected: 02/08/22 16:17
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212085-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:53	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553453	03/04/22 12:46	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-212085-2

Client Sample ID: Duplicate

Lab Sample ID: 500-212085-5

Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:53	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553453	03/04/22 12:46	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-01

Lab Sample ID: 500-212085-6

Date Collected: 02/09/22 15:02
Date Received: 02/10/22 13:55

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555441	03/15/22 13:53	CLP	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553453	03/04/22 12:47	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Client Sample ID: MW-10

Lab Sample ID: 500-212085-7

Date Collected: 02/09/22 13:50
Date Received: 02/10/22 13:55

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			551587	02/21/22 09:25	LPS	TAL SL
Total/NA	Analysis	903.0		1	555442	03/15/22 13:47	FLC	TAL SL
Total/NA	Prep	PrecSep_0			551588	02/21/22 09:59	LPS	TAL SL
Total/NA	Analysis	904.0		1	553453	03/04/22 12:47	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555656	03/16/22 17:51	EMH	TAL SL

Laboratory References:

TAL SL = Eurofins 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 FAB

Job ID: 500-212085-2

Laboratory: Eurofins St. Louis

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

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

Tracer/Carrier Summary

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

Job ID: 500-212085-2

Method: 903.0 - Radium-226 (GFPC)

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

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
500-212085-1	MW-2	82.8
500-212085-2	MW-3	88.5
500-212085-3	MW-4	55.6
500-212085-4	MW-5	89.3
500-212085-5	Duplicate	90.3
500-212085-6	MW-01	91.0
500-212085-7	MW-10	69.8
LCS 160-551587/1-A	Lab Control Sample	87.5
MB 160-551587/21-A	Method Blank	90.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

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

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
500-212085-1	MW-2	82.8	84.1
500-212085-2	MW-3	88.5	83.4
500-212085-3	MW-4	55.6	83.0
500-212085-4	MW-5	89.3	84.5
500-212085-5	Duplicate	90.3	85.6
500-212085-6	MW-01	91.0	84.5
500-212085-7	MW-10	69.8	86.0
LCS 160-551588/1-A	Lab Control Sample	87.5	83.7
MB 160-551588/21-A	Method Blank	90.0	86.7

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier