DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 4th quarter 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.

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-01 (S) up-gradient	11/16/2015	1.0	98	44	0.17	7.07	93	530	< 0.003	< 0.001	0.057	^< 0.001	< 0.0005	< 0.005	< 0.001	*< 0.0005	< 0.01	< 0.0002	< 0.0050	0.744	< 0.0025	*< 0.002
	2/25/2016	0.2	110	42	0.16	7.23	54	460	< 0.003	0.0025	0.053	< 0.001	< 0.0005	< 0.005	0.0014	0.0019	< 0.01	< 0.0002	< 0.005	< 0.722	0.0029	< 0.002
	5/20/2016	0.34	100	44	0.17	6.95	65	430	< 0.003	0.0081	0.062	< 0.001	< 0.0005	0.007	0.0053	0.011	< 0.01	< 0.0002	< 0.005	< 0.953	< 0.0025	< 0.002
	8/17/2016	0.27	78	39	0.25	7.16	50	530	< 0.003	0.0014	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.0014	< 0.010	< 0.0002	0.0057	< 0.491	< 0.0025	< 0.002
	11/16/2016	0.18	97	39	0.21	7.22	32	500	< 0.003	0.0051	0.056	< 0.001	< 0.0005	< 0.005	0.0044	0.0082	< 0.01	< 0.0002	0.0059	< 0.618	< 0.0025	< 0.002
	2/14/2017	0.18	120	55	0.17	7.30	60	550	< 0.003	0.0041	0.056	< 0.001	< 0.0005	< 0.005	0.0045	0.0076	< 0.01	< 0.0002	0.0056	< 0.837	< 0.0025	< 0.002
	5/3/2017	0.19	86	66	0.16	7.41	45	460	< 0.003	0.0015	0.045	< 0.001	< 0.0005	< 0.005	0.0033	0.0067	< 0.01	< 0.0002	< 0.005	0.574	< 0.0025	< 0.002
	6/21/2017	0.18	85	58	0.18	7.60	47	540	< 0.003	< 0.001	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.418	< 0.0025	< 0.002
	8/25/2017	0.56	86	41	0.18	7.41	63	490	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0059	0.775	< 0.0025	< 0.002
	11/8/2017	0.57	130	38	0.12	6.69	61	640	< 0.003	< 0.001	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.343	< 0.0025	< 0.002
	5/17/2018	0.15	88	50	0.12	6.7	48	540	< 0.003	< 0.001	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.00068	< 0.01	< 0.0002	< 0.005	< 0.396	< 0.0025	< 0.002
	8/8/2018	0.14	86	48	0.13	6.8	43	430	< 0.003	< 0.001	0.051	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.579	< 0.0025	< 0.002
	4/30/2019	0.07	78	54	0.17	7.2	27	450	< 0.003	0.0014	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.0017	< 0.01	< 0.0002	< 0.005	< 0.656	< 0.0025	< 0.002
	11/13/2019	0.52	95	47	0.18	7.51	41	390	NA	0.029	0.091	NA	0.00085	NA	0.016	0.034	0.012	< 0.0002	0.0079	0.884	< 0.0025	< 0.002
	12/26/2019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0021	0.0041	NA	NA	NA	NA	NA	NA
	4/28/2020	0.33	110	46	0.19	7.17	41	470	NA	< 0.001	0.051	NA	< 0.0005	NA	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002
	12/7/2020	0.6	100	54	0.25	7.22	55	490	NA	< 0.001	0.058	NA	< 0.0005	NA	< 0.001	0.00055	<^ 0.01	< 0.0002	0.0051	0.724	< 0.0025	< 0.002
	5/11/2021	0.23	84	53	0.2	7.52	38	450	< 0.003	< 0.001	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.01	< 0.523	< 0.0025	< 0.002
	8/24/2021	0.26	98	40	0.18	7.19	56	450	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0069	1.08	< 0.0025	< 0.002
	11/30/2021	0.33	97	42	0.2	7.14	^-	28	410	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.005	< 0.0002	0.0072	1.1	0.0026	< 0.002
	2/9/2022	0.18	95	47	0.17	7.33	47	520	< 0.003	0.0013	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.00089	0.0026	< 0.0002	0.0075	< 0.628	< 0.0025	< 0.002
	6/7/2022	0.23	82	51	0.15	7.62	27	440	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.0057	0.386	< 0.0025	< 0.002
	8/30/2022	0.59	100	44	0.13	7.1	66	700	< 0.003	< 0.001	0.076	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002
	11/15/2022	0.71	110	45	0.1	7.15	44	520	< 0.003	< 0.001	0.088	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.446	< 0.0025	< 0.002
MW-09 (S) up-gradient	11/18/2015	2.0	63	H 31	H 0.19	7.15	H 110	H 440	< 0.003	< 0.001	0.027	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	H < 0.0002	0.043	< 0.655	< 0.0025	< 0.002
	2/25/2016	2.3	77	36	0.19	7.34	120	500	< 0.003	0.0042	0.036	< 0.001	< 0.0005	< 0.005	0.0011	< 0.0005	< 0.01	< 0.0002	0.053	< 0.361	< 0.0025	< 0.002
	5/19/2016	2.0	73	38	0.17	7.30	100	520	< 0.003	< 0.001	0.029	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.042	< 0.394	0.0032	< 0.002
	8/17/2016	2.7	74	39	0.15	7.32	120	750	< 0.003	< 0.001	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.036	< 0.498	< 0.0025	< 0.002
	11/17/2016	4.5	85	38	0.13	7.37	110	630	< 0.003	0.0038	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.036	0.646	0.0025	< 0.002
	2/15/2017	4.1	84	38	0.13	6.94	160	620	< 0.003	0.0032	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.035	< 0.377	0.0062	< 0.002
	5/3/2017	3.5	85	38	0.17	7.48	170	680	< 0.003	0.0012	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.034	< 0.445	0.011	< 0.002
	6/21/2017	3.3	82	38	0.14	7.63	180	760	< 0.003	< 0.001	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.033	< 0.380	0.0072	< 0.002
	8/25/2017	3.8	85	36	0.14	7.30	150	630	< 0.003	< 0.001	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.028	< 0.160	0.0043	< 0.002
	11/8/2017	4	89	37	0.13	6.92	190	650	< 0.003	0.0012	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.026	0.344	< 0.0025	< 0.002
	5/16/2018	4.1	89	36	0.15	7.83	180	550	< 0.003	< 0.001	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.00029	0.031	< 0.424	0.006	< 0.002
	8/8/2018	4.3	86	39	0.14	7.31	180	690	< 0.003	< 0.001	0.037	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.032	0.44	0.0078	< 0.002
	5/1/2019	4.6	79	37	0.17	7.11	170	640	< 0.003	< 0.001	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.031	< 0.66	0.0036	< 0.002
	11/14/2019	2.5	85	36	0.18	7.49	82	500	NA	0.0056	0.057	NA	< 0.0005	NA	0.0032	0.00076	< 0.010	< 0.0002	0.026	< 0.457	< 0.0025	< 0.002
	4/29/2020	2	71	34	0.2	7.19	140	510	NA	0.0012	0.031	NA	< 0.0005	NA	< 0.001	< 0.0005	< 0.010	< 0.0002	0.028	0.698	< 0.0025	< 0.002
	12/8/2020	2.6	65	34	0.22	7.29	63	400	NA	0.0013	0.042	NA	< 0.0005	NA	< 0.001	< 0.0005	< 0.010	< 0.0002	0.025	< 0.479	< 0.0025	< 0.002
	5/13/2021	2	74	33	0.2	7.33	120	410	< 0.003	< 0.001	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.025	< 0.612	< 0.0025	< 0.002
	8/25/2021	2.2	80	32	0.17	7.11	130	420	< 0.003	< 0.001	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.022	< 0.579	< 0.0025	< 0.002
	12/1/2021	3.2	79	32	0.2	7.22	^-	100	570	< 0.003	< 0.001	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.002	< 0.0002	0.028	< 0.365	< 0.0025	< 0.002
	2/10/2022	3.5	79	33	0.23	7.12	120	510	< 0.003	0.0019	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.003	< 0.0002	0.03	< 0.393	< 0.0025	< 0.002
	6/8/2022	3.2	70	31	0.21	7.52	150	510	< 0.003	0.002	0.042	< 0.001	< 0.0005	< 0.005	0.0011	< 0.0005	< 0.010	< 0.0002	0.028	< 0.548	< 0.0025	< 0.002
	8/31/2022	3.2	79	30	0.18	7.18	140	530	< 0.003	< 0.001	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.010	< 0.0002	0.024	< 0.458	< 0.0025	< 0.002
	11/15/2022	3.7	77	32	0.25	7.39	130	490	< 0.003	< 0.001	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.031	< 0.448	< 0.0025	< 0.002
MW-19^ (S) up-gradient	11/18/2016	3.8	89	38	0.13	7.34	120	670	< 0.003	< 0.001	0.084	< 0.001	< 0.0005	< 0.005	0.001	0.00068	< 0.01	< 0.0002	0.035	< 0.476	0.0043	< 0.002
	2/15/2017	4.7	88	37	0.13	7.50	180	630	< 0.003	< 0.001	0.088	< 0.001	< 0.0005	< 0.005	< 0.001	0.00061	< 0.01	< 0.0002	0.046	< 0.482	0.0063	< 0.002
	5/5/2017	3.3	88	38	0.14	7.51	160	640	< 0.003	< 0.001	0.076	< 0.001	< 0.0005	< 0.005	0.0013	0.0012	< 0.01	< 0.0002	0.035	0.923	0.0068	< 0.002
	6/21/2017	2.3	110	35	0.12	7.30	170	690	< 0.003	< 0.001	0.089	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.024	< 0.334	0.0028	< 0.002
	8/28/2017	3.5	97	36	0.16	7.20	160	700	< 0.003	< 0.001	0.073	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.041	0.370	0.0035	< 0.002
	11/6/2017	4.5	86	35	0.17	7.26	190	640	< 0.003	< 0.001	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.042	0.360	< 0.0025	< 0.002
	5/14/2018	4.1	96	35	0.16	7.92	180	820	< 0.003	< 0.001	0.079	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.043	0.562	0.0044	< 0.002
	8/6/2018	3.8	100	37	0.13	7.57	170	720	< 0.003	< 0.001	0.078	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.032	0.835	0.0052	< 0.002
	5/2/2019	3.7	100	39	0.13	6.86	160	700	< 0.003	< 0.001	0.076	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.03	< 0.431	0.0035	< 0.002
	11/13/2019	2.5	130	53	0.15	7.51	140	740	NA	0.0014	0.100	NA	< 0.0005	NA	< 0.001	0.00056	< 0.01	< 0.0002	0.04	< 0.447	< 0.0025	< 0.002
	4/27/2020	2.3	100	43	0.17	6.87	110	570	NA	< 0.001	0.077	NA	< 0.0005	NA	< 0.001	< 0.0005	< 0.01	< 0.0002	0.04	0.630	< 0.0025	< 0.002
	12/7/2020	3.3	74	34	0.19	7.30	F1	76	420	NA	< 0.001	0.062	NA	< 0.0005	NA	< 0.001	< 0.0005	<^ 0.01	< 0.0002	0.05	< 0.509	< 0.0025	< 0.002
	5/10/2021	2.3	68	33	0.17	7.36	110	420	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.05	< 0.524	< 0.0025	< 0.002
	8/26/2021	2.1	85	32	0.11	7.12	130	320	< 0.003	< 0.001	0.066	< 0.001	< 0.0005	< 0.0005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.028	< 0.543	< 0.0025	< 0.002
	12/1/2021	3.5	89	31	0.17	7.25	^-	120	620	< 0.003	< 0.001	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.0038	< 0.0002	0.05	1.18	< 0.0025	< 0.002
	2/7/2022	3.9	77	34	0.17	7.18	140	600	< 0.003	< 0.001	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.003	< 0.0002	0.043	0.881	< 0.0025	< 0.002
	6/6/2022	2.7	92	33	0.12	7.08	130	560	< 0.003	< 0.001	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.03	< 0.419	< 0.0025	< 0.002
	8/30/2022	0.7	140	200	0.32	7.29	45	1100	< 0.003	0.0027	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.0082	0.44	< 0.0025	< 0.002
	11/16/2022	4.3	80	34	0.22	7.27	160	580	< 0.003	< 0.001	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.041	0.746	0.0029	< 0.002
MW-08 (CL) down-gradient	11/18/2015	1.5	160	H 170	H 0.44	7.61	H 470	H 1300	< 0.003	0.0029	0.15	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.028	H < 0.0002	0.01	< 0.559	< 0.0025	< 0.002
	2/25/2016	1.7	160	200	0.30	7.00	280	1100	< 0.003	0.0018	0.11	< 0.001	0.00052	< 0.005	< 0.001	0.00072	0.015	< 0.0002	0.02	0.535	< 0.0025	< 0.002
	5/18/2016	1.7	160	140	0.34	7.67	300	1200	< 0.003	0.0029	0.16	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.036	< 0.0002	0.0069	0.417	< 0.0025	< 0.002
	8/17/2016	1.0	150	230	0.35	7.33	360	1400	< 0.003	0.0032	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.013	< 0.519	< 0.0025	< 0.002
	11/15/2016	1.2	140	290	0.33	6.90	230	1300	< 0.003	0.0012	0.076	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.016	0.583	< 0.0025	< 0.002
	2/16/2017	1.5	150	460	0.28	7.00	230	1500	< 0.003	0.003	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.00087	< 0.01	< 0.0002	0.026	< 0.375	< 0.0025	< 0.002
	5/2/2017	0.55	140	300	0.33	7.30	320	1300	< 0.003	0.0029	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.0083	< 0.480	< 0.0025	< 0.002
	6/21/2017	1.2	160	490	0.30	7.27	350	1700	< 0.003	0.0045	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.031	< 0.439	< 0.0025	< 0.002
	8/29/2017	1.2	150	360	0.47	7.29	300	1500	< 0.003	0.0011	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.034	0.699	< 0.0025	< 0.002
	11/8/2017	0.68	130	260	0.45	7.27	270	1200	< 0.003	0.0027	0.10	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.014	0.806	< 0.0025	< 0.002
	5/17/2018	1.2	130	200	0.37	6.79	170	1000	< 0.003	0.003	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.024	0.655	< 0.0025	< 0.002
	8/8/2018	1.1	140	270	0.32	6.93	190	1200	< 0.003	0.0055	0.07	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.019	< 0.410	< 0.0025	< 0.002
	5/1/2019	0.54	95	73	0.35	7.60	85	600	< 0.003	0.0018	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.0069	0.892	< 0.0025	< 0.002
	11/13/2019	0.98	110	92	0.33	7.66	110	640	NA	0.0025	0.087	NA	< 0.0005	NA	< 0.001	0.00094	0.022	< 0.0002	0.013	< 0.498	< 0.0025	< 0.002
	4/28/2020	0.74	110	120	0.38	7.58	58	660	NA	0.0026	0.095	NA	< 0.0005	NA	< 0.001	< 0.0005	0.026	< 0.0002	0.011	< 0.450	< 0.0025	< 0.002
	12/14/2020	0.73	120	150	0.38	7.40	92	530	NA	0.0024	0.110	NA	< 0.0005	NA	< 0.001	0.00093	0.03	< 0.0002	0.012	1.310	< 0.0025	< 0.002
	5/11/2021	0.54	97	120	0.39	7.64	110	680	< 0.003	0.002	0.092	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.021	< 0.0002	0.011	< 0.695	< 0.0025	< 0.002
	8/25/2021	0.6	100	110	0.35	7.28	100	550	< 0.003	0.0015	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.011	< 0.494	< 0.0025	< 0.002
	12/1/2021	0.64	110	97	0.36	7.50	^-	66	690	< 0.003	0.0025	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.011	1.02	< 0.0025	< 0.002
	2/10/2022	0.81	110	130	0.37	7.54	55	670	< 0.003	0.0029	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.0092	0.935	< 0.0025	< 0.002
	6/8/2022	0.73	130	180	0.3	7.71	53	790	< 0.003	0.0024	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.0086	< 0.52	< 0.0025	< 0.002
	8/30/2022	0.7	140	210	0.32	7.37	50	1200	< 0.003	0.0027	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.0083	0.859	< 0.0025	< 0.002
	11/15/2022	0.68	130	200	0.45	7.67	41	780	< 0.003	0.003	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.0083	0.451	< 0.0025	< 0.002

Notes: All units are in mg/l except pH is in standard units.
F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
V- Serial dilution exceeds control limits.

*- LCS or LCSD is outside acceptance limits.
^- Denotes instrument related QC exceeds the control limits
(R) - Resample Event
NA - Not Analyzed

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-11 (S) down-gradient	11/18/2015	1.7	110	H 54	H 0.55	7.06	H 160	H 670	< 0.003	0.017	0.18	^ < 0.001	< 0.0005	< 0.005	0.002	< 0.0005	< 0.01	H < 0.0002	0.0120	0.788	< 0.0025	< 0.002
	2/26/2016	1.5	140	120	0.55	7.25	220	850	< 0.003	0.023	0.23	< 0.001	< 0.0005	< 0.005	0.0023	< 0.0005	< 0.01	< 0.0002	0.013	0.562	< 0.0025	< 0.002
	5/20/2016	1.6	140	120	0.56	7.10	210	920	< 0.003	0.027	0.26	< 0.001	< 0.0005	< 0.005	0.0024	0.00076	< 0.01	< 0.0002	0.014	0.524	< 0.0025	< 0.002
	8/17/2016	1.0	130	93	0.67	7.08	180	910	< 0.003	F1 0.29	1.4	< 0.001	< 0.0005	< 0.005	0.0034	0.001	< 0.010	< 0.0002	0.011	1.130	< 0.0025	< 0.002
	11/17/2016	1.2	140	130	0.44	7.21	240	1100	< 0.003	0.071	0.44	< 0.001	< 0.0005	< 0.005	0.0037	0.0013	< 0.01	< 0.0002	0.0088	0.734	< 0.0025	< 0.002
	2/16/2017	1.6	140	110	0.40	6.62	260	910	< 0.003	0.04	0.3	< 0.001	< 0.0005	< 0.005	0.003	0.00094	< 0.01	< 0.0002	0.013	0.341	< 0.0025	< 0.002
	5/3/2017	1.3	160	160	0.42	7.36	440	1300	< 0.003	0.039	0.26	< 0.001	< 0.0005	< 0.005	0.0035	0.00093	< 0.01	< 0.0002	0.015	0.662	< 0.0025	< 0.002
	6/22/2017	1.2	140	120	0.60	7.21	260	1000	< 0.003	0.07	0.36	< 0.001	< 0.0005	< 0.005	0.0025	< 0.0005	< 0.01	< 0.0002	0.014	< 0.418	< 0.0025	< 0.002
	8/29/2017	2.2	130	83	0.52	7.23	310	1100	< 0.003	0.017	0.21	< 0.001	< 0.0005	< 0.005	0.0026	< 0.0005	< 0.01	< 0.0002	0.016	< 0.313	< 0.0025	< 0.002
	11/9/2017	1.5	140	100	0.59	6.96	230	970	< 0.003	0.092	0.54	< 0.001	< 0.0005	< 0.005	0.0034	< 0.0005	< 0.01	< 0.0002	0.014	1.24	< 0.0025	< 0.002
	5/16/2018	2.0	140	88	0.61	7.89	270	1000	< 0.003	0.089	0.47	< 0.001	< 0.0005	< 0.005	0.0041	< 0.0005	< 0.01	< 0.0002	0.014	1.12	< 0.0025	< 0.002
	8/9/2018	1.4	160	120	0.65	7.24	220	1000	< 0.003	0.68	3.0	<^ 0.0010	0.0008	< 0.005	0.0053	0.0012	< 0.01	< 0.0002	0.013	1.48	< 0.0025	< 0.002
	5/1/2019	2.3	110	60	0.62	7.08	200	730	< 0.003	0.11	0.6	< 0.001	< 0.0005	< 0.005	0.0026	0.0011	< 0.01	< 0.0002	0.014	1.59	< 0.0025	< 0.002
	11/14/2019	1.8	120	83	0.55	7.43	150	890	NA	0.14	0.72	NA	< 0.0005	NA	0.0041	0.0021	< 0.01	< 0.0002	0.02	2.64	< 0.0025	< 0.002
	4/29/2020	1.2	100	110	0.62	7.08	320	950	NA	0.019	0.21	NA	< 0.0005	NA	0.0019	< 0.0005	< 0.01	< 0.0002	0.024	0.47	< 0.0025	< 0.002
	12/8/2020	0.7	86	94	0.67	7.26	200	650	NA	0.027	0.26	NA	< 0.0005	NA	0.0021	< 0.0005	< 0.01	< 0.0002	0.03	< 0.523	< 0.0025	< 0.002
	5/11/2021	1.0	99	130	0.72	7.26	230	820	< 0.003	0.024	0.25	< 0.001	< 0.0005	< 0.005	0.0019	< 0.0005	0.012	< 0.0002	0.032	1.59	< 0.0025	< 0.002
	8/25/2021	0.9	100	100	0.65	7.03	210	800	< 0.003	0.015	0.16	< 0.001	< 0.0005	< 0.005	0.0016	< 0.0005	< 0.01	< 0.0002	0.03	< 0.472	< 0.0025	< 0.002
	12/1/2021	1.2	100	85	0.67	7.17	^- 160	850	< 0.003	0.0093	0.17	< 0.001	< 0.0005	< 0.005	0.0019	< 0.0005	0.0067	< 0.0002	0.032	1.3	< 0.0025	< 0.002
	2/10/2022	0.9	110	110	0.68	7.11	220	920	< 0.003	0.015	0.2	< 0.001	< 0.0005	< 0.005	0.0024	0.00059	0.007	< 0.0002	0.027	0.839	< 0.0025	< 0.002
	6/8/2022	1.7	110	75	0.64	7.35	150	710	< 0.003	0.028	0.2	< 0.001	0.00058	< 0.005	0.0018	< 0.0005	< 0.01	< 0.0002	0.021	0.786	< 0.0025	< 0.002
	8/31/2022	1.2	120	100	0.61	6.97	190	830	< 0.003	0.016	0.2	< 0.001	< 0.0005	< 0.005	0.0017	< 0.0005	< 0.01	< 0.0002	0.02	1.04	< 0.0025	< 0.002
	11/15/2022	2.2	110	61	0.84	7.21	110	690	< 0.003	0.015	0.16	< 0.001	< 0.0005	< 0.005	0.0017	< 0.0005	< 0.01	< 0.0002	0.016	0.785	< 0.0025	< 0.002
MW-12 (CL) down-gradient	11/19/2015	0.94	160	H 220	H 0.57	7.12	H 650	H 1400	< 0.003	0.10	0.180	^ < 0.001	0.00068	< 0.005	< 0.001	0.00063	0.023	H < 0.0002	0.0280	< 0.685	< 0.0025	< 0.002
	2/26/2016	0.42	130	200	0.40	7.96	530	1200	< 0.003	0.077	0.130	< 0.001	0.0016	< 0.005	< 0.001	0.0014	0.014	< 0.0002	0.0150	1.11	< 0.0025	< 0.002
	5/20/2016	0.65	150	200	0.49	7.28	550	1400	< 0.003	0.065	0.16	F1 < 0.001	0.00077	< 0.005	< 0.001	0.0016	0.013	< 0.0002	0.028	0.576	< 0.0025	< 0.002
	8/18/2016	0.69	170	200	0.49	7.06	620	1600	< 0.003	0.33	0.88	0.0013	0.007	< 0.005	0.001	0.0011	0.015	< 0.0002	0.011	3.68	< 0.0025	< 0.002
	11/18/2016	0.83	140	180	0.46	7.34	340	1300	< 0.003	0.23	0.67	< 0.001	0.0028	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	< 0.01	1.86	< 0.0025	< 0.002
	2/16/2017	0.48	140	190	0.37	7.54	630	1300	< 0.003	0.29	0.26	< 0.001	0.0057	< 0.005	0.0013	0.0042	0.010	< 0.0002	0.015	1.15	< 0.0025	< 0.002
	5/3/2017	0.49	120	190	0.37	7.47	500	1200	< 0.003	0.10	0.17	< 0.001	0.0022	< 0.005	< 0.001	0.0038	0.011	< 0.0002	0.017	0.518	< 0.0025	< 0.002
	6/22/2017	0.50	130	190	0.48	7.36	580	1400	< 0.003	0.025	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.00096	< 0.010	< 0.0002	0.028	0.376	< 0.0025	< 0.002
	8/29/2017	0.78	140	180	0.52	7.34	520	1400	< 0.003	0.02	0.095	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.024	0.529	< 0.0025	< 0.002
	11/10/2017	0.94	130	170	0.48	7.38	370	1200	< 0.003	0.50	0.45	< 0.001	0.0015	< 0.005	< 0.001	0.00097	0.018	< 0.0002	0.023	1.67	< 0.0025	< 0.002
	5/16/2018	0.46	100	180	0.47	8.12	720	1500	< 0.003	0.09	0.1	< 0.001	0.00052	< 0.005	< 0.001	0.00067	0.012	< 0.0002	0.021	0.741	< 0.0025	< 0.002
	8/9/2018	0.61	120	190	0.44	7.42	480	1300	< 0.003	0.12	0.15	<^ 0.001	0.00084	< 0.005	< 0.001	0.00072	< 0.010	< 0.0002	0.026	0.735	< 0.0025	< 0.002
	5/1/2019	0.4	100	170	0.38	7.68	330	1000	< 0.003	0.04	0.13	< 0.001	0.00054	< 0.005	< 0.001	0.0012	0.014	< 0.0002	0.011	0.666	< 0.0025	< 0.002
	11/14/2019	0.74	120	160	0.45	7.61	280	1100	NA	0.026	0.072	NA	< 0.0005	NA	< 0.001	< 0.0005	0.014	< 0.0002	0.027	0.568	< 0.0025	< 0.002
	4/29/2020	0.34	71	150	0.34	7.96	360	980	NA	0.003	0.034	NA	< 0.0005	NA	< 0.001	< 0.0005	0.012	< 0.0002	0.015	0.578	< 0.0025	< 0.002
	12/8/2020	0.61	92	160	0.56	7.36	320	990	NA	0.025	0.069	NA	< 0.0005	NA	< 0.001	< 0.0005	0.012	< 0.0002	0.027	< 0.476	< 0.0025	< 0.002
	5/13/2021	0.4	89	140	0.23	7.39	350	990	< 0.003	0.003	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.016	0.563	< 0.0025	< 0.002
	8/25/2021	0.5	82	130	0.46	7.43	220	740	< 0.003	0.0083	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.019	< 0.502	< 0.0025	< 0.002
	12/1/2021	0.53	72	130	0.52	7.38	^- 170	730	< 0.003	0.018	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.009	< 0.0002	0.017	0.623	< 0.0025	< 0.002
	2/10/2022	0.35	96	140	0.27	7.28	320	980	< 0.003	0.0072	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.017	0.602	< 0.0025	< 0.002
	6/8/2022	0.49	98	140	0.41	7.65	320	950	< 0.003	0.0079	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.02	0.495	< 0.0025	< 0.002
	8/31/2022	0.62	100	150	0.5	7.33	260	870	< 0.003	0.099	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.021	0.618	< 0.0025	< 0.002
	11/15/2022	0.58	90	150	0.74	7.66	220	810	< 0.003	0.032	0.072	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.02	< 0.622	< 0.0025	< 0.002
MW-15 (CL) down-gradient	11/18/2015	1.5	270	H 210	H 0.53	6.55	H 1400	H 2400	< 0.003	0.03	0.096	^ < 0.001	0.00061	< 0.005	< 0.001	< 0.0005	0.042	H < 0.0002	0.023	< 0.599	0.0065	< 0.002
	2/25/2016	2.0	240	110	0.61	6.84	640	1700	< 0.003	0.025	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.041	< 0.0002	0.035	0.870	0.045	< 0.002
	5/19/2016	2.7	320	240	0.53	6.83	1200	2800	< 0.003	0.04	0.097	< 0.001	0.00098	< 0.005	< 0.001	< 0.0005	0.044	< 0.0002	0.041	< 0.420	0.0067	< 0.002
	8/18/2016	1.5	200	F1 170	0.54	6.96	660	1900	< 0.003	0.13	0.11	< 0.001	0.0041	< 0.005	< 0.001	< 0.0005	0.028	< 0.0002	0.027	< 0.672	0.0061	< 0.002
	11/17/2016	1.3	120	180	0.47	6.91	560	1900	< 0.003	0.0033	0.031	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.016	< 0.0002	0.018	< 0.570	0.0078	< 0.002
	2/17/2017	1.9	200	190	0.43	7.24	670	1700	< 0.003	0.02	0.056	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.027	< 0.392	0.0032	< 0.002
	5/4/2017	1.5	180	190	0.57	7.35	670	1700	< 0.003	0.011	0.049	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	0.023	< 0.456	0.0034	< 0.002
	6/21/2017	1.6	180	200	0.56	7.30	530	1600	< 0.003	0.0093	0.054	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.027	< 0.0002	0.03	< 0.347	0.019	< 0.002
	8/29/2017	2.2	190	200	0.53	6.87	540	1800	< 0.003	0.0018	0.044	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	0.032	0.377	0.0092	< 0.002
	11/10/2017	1.6	170	180	0.63	7.09	530	1500	< 0.003	0.0063	0.046	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.02	< 0.313	0.016	< 0.002
	5/17/2018	2.3	200	160	0.5	6.75	680	1800	< 0.003	0.0081	0.05	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.029	< 0.0002	0.03	0.397	0.077	< 0.002
	8/9/2018	2.3	200	200	0.48	7.06	520	1700	< 0.003	0.0083	0.048	<^ 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.033	0.566	0.06	< 0.002
	5/2/2019	1.5	180	200	0.52	6.89	420	1500	< 0.003	0.0045	0.052	< 0.001	< 0.0005	< 0.005	< 0.0010	< 0.0005	0.027	< 0.0002	0.023	< 0.424	< 0.0025	< 0.002
	11/14/2019	1.8	170	170	0.5	7.24	260	1300	NA	0.0044	0.053	NA	< 0.0005	NA	< 0.0010	< 0.0005	0.029	< 0.0002	0.025	< 0.475	< 0.0025	< 0.002
	4/29/2020	1.2	160	200	0.58	6.90	370	1300	NA	0.0036	0.06	NA	< 0.0005	NA	< 0.0010	< 0.0005	0.027	< 0.0002	0.023	0.578	< 0.0025	< 0.002
	12/8/2020	1.5	170	200	0.55	7.04	540	1400	NA	0.02	0.1	NA	0.00059	NA	0.0012	< 0.0005	0.035	< 0.0002	0.02	0.626	0.012	< 0.002
	5/12/2021	1.3	180	180	0.54	6.97	520	1500	< 0.003	0.0048	0.065	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.014	< 0.648	0.0071	< 0.002
	8/23/2021	1.5	200	180	0.52	6.76	470	1500	< 0.003	0.0019	0.055	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.024	0.465	0.015	< 0.002
	11/29/2021	1.9	220	250	0.48	6.71	480	1700	< 0.003	0.0022	0.075	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.024	< 0.0002	0.016	0.649	0.059	< 0.002
	2/9/2022	0.93	140	160	0.59	6.91	320	1200	< 0.003	0.008	0.055	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.024	< 0.0002	0.014	< 0.424	0.0034	< 0.002
	6/8/2022	2	330	240	0.43	6.87	980	2700	< 0.003	0.0032	0.088	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.027	< 0.0002	0.019	0.485	0.1	< 0.002
	8/31/2022	1.5	210	270	0.48	6.80	530	1800	< 0.003	0.0049	0.057	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.032	< 0.0002	0.021	< 0.55	0.0078	< 0.002
	11/16/2022	1.3	190	230	0.71	7.26	450	1500	< 0.003	0.0071	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.025	< 0.0002	0.055	0.49	< 0.0025	< 0.002
MW-17 (CL) down-gradient	11/19/2015	1.6	210	H 230	H 0.43	7.11	H 850	H 1800	< 0.003	0.0028	0.14	^ < 0.001	< 0.0005	< 0.005	0.0012	0.0012	0.019	H < 0.0002	0.035	< 0.790	< 0.0025	< 0.002
	2/22/2016	1.8	290	280	0.55	7.19	960	2100	< 0.003	0.021	0.051	< 0.001	< 0.0005	< 0.005	0.0012	< 0.0005	0.038	< 0.0002	0.093	1.07	< 0.0025	< 0.002
	5/18/2016	1.4	200	230	0.64	7.02	700	1800	< 0.003	0.32	0.12	< 0.001	0.0011	< 0.005	0.0015	< 0.0005	0.026	< 0.0002	0.12	8.27	< 0.0025	0.0028
	8/15/2016	1.1	220	220	0.60	7.08	860	2100	< 0.003	0.34	0.12	< 0.001	0.001	< 0.005	0.0016	< 0.0005	0.022	< 0.0002	0.1	0.606	< 0.0025	0.0031
	11/14/2016	1.5	200	210	0.56	7.26	560	2000	< 0.003	0.19	0.073	< 0.001	0.00051	< 0.005	0.0012	< 0.0005	0.022	< 0.0002	0.042	3.76	< 0.0025	0.0021
	2/13/2017	1.6	190	230	0.56	6.84	770	1600	< 0.003	0.35	0.16	< 0.001	0.00093	< 0.005	0.0014	0.00079	0.019	< 0.0002	0.088	2.08	< 0.0025	0.0025
	5/4/2017	1.2	170	210	0.61	7.29	720	1500	< 0.003	0.24	0.39	0.0013	0.0023	< 0.005	0.0023	0.00066	0.016	< 0.0002	0.036	1.91	< 0.0025	0.0065
	6/22/2017	0.95	150	230	0.72	7.38	580	1600	< 0.003	0.41	0.13	< 0.001	0.0007	< 0.005	0.0012	0.0011	0.022	< 0.0002	0.11	1.21	< 0.0025	0.0022
	8/29/2017	1.4	190	230	0.64	7.19	640	1900	< 0.003	0.24	0.092	< 0.001	< 0.0005	< 0.005	< 0.001	0.00058	0.021	< 0.0002	0.13	3.32	< 0.0025	0.0025
	11/6/2017	1.7	190	240	0.62	7.27	840	1800	< 0.003	0.17	0.38	< 0.001	0.0022	< 0.005	0.0015	< 0.0005	< 0.01	< 0.0002	0.019	2.54	< 0.0025	0.0075
	5/14/2018	1.6	170	220	0.6	7.79	800	1700	< 0.003	0.42	0.17	< 0.001	0.002	< 0.005	0.0029	0.0021	0.015	< 0.0002	0.13	2.03	< 0.0025	0.0068
	8/6/2018	1.3	170	230	0.6	7.12	620	1600	< 0.003	0.087	0.055	<^ 0.001	0.00094	< 0.005	0.0015	< 0.0005	0.019	< 0.0002	0.084	1.34	< 0.0025	0.0023
	4/29/2019	0.98	150	190	0.66	7.25	660	1500	< 0.003	0.042	0.04	< 0.001	0.00052	< 0.005	< 0.001	0.00069	0.015	< 0.0002	0.06	0.517	< 0.0025	< 0.002
	11/13/2019	1.9	230	600	0.55	7.16	730	2300	NA	0.088	0.1	NA	0.0015	NA	0.0011	0.00093	0.021	< 0.0002	0.058	0.643	< 0.0025	0.0029
	4/27/2020	1.2	150	170	0.79	7.27	520	1300	NA	0.026	0.036	NA	< 0.0005	NA	< 0.001	0.00081	0.021	< 0.0002	0.075	0.498	< 0.0025	< 0.002
	12/7/2020	1.3	140	160	0.8	7.22	430	1100	NA	0.08	0.05	NA	0.001	NA	< 0.001	0.0011	0.022	< 0.0002	0.056	< 0.438	< 0.0025	< 0.002
	5/12/2021	0.99	130	160	0.77	7.52	480	1200	< 0.003	0.0053	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.049	< 0.478	< 0.0025	< 0.002
	8/23/2021	0.92	140	150	0.7	7.37	500	1100	< 0.003	0.0058	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.043	0.553	< 0.0025	< 0.002
	11/29/2021	1	140	150	0.76	7.30	430	1200	< 0.003	0.0039	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.04	0.892	< 0.0025	< 0.002
	2/7/2022	0.9	140	160	0.82	7.27	430	1300	< 0.003	0.0044	0.026	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.038	0.693	< 0.0025	< 0.002
	6/8/2022	1.3	200	190	0.69	7.51	810	1900	< 0.003	0.0051	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.018	< 0.0002	0.052	< 0.601	< 0.0025	< 0.002
	8/31/2022	1.1	150	170	0.73	7.12	430	1200	< 0.003	0.003	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.016	< 0.0002	0.024	< 0.533	< 0.0025	< 0.002
	11/16/2022	1.1	150	170	0.98	7.56	530	1400	< 0.003	0.0058	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.028	0.512	< 0.0025	< 0.002
MW-18 (S) down-gradient	11/19/2015	0.80	140	H 220	H 0.66	7.62	H 310	H 1200	< 0.003	0.0014	0.14	^ < 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	H < 0.0002	0.0051	< 0.845	< 0.0025	< 0.002
	2/22/2016	0.76	150	220	0.68	7.06	310	1200	< 0.003	0.0012	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.022	< 0.0002	0.0055	1.88	< 0.0025	< 0.002
	5/18/2016	0.72	120	230	0.71	7.68	230	1200	< 0.003	< 0.001	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0052	< 0.493	< 0.0025	< 0.002
	8/15/2016	0.67	130	210	0.64	7.52	330	1300	< 0.003	< 0.001	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0059	0.836	< 0.0025	< 0.002
	11/18/2016	0.94	130	200	0.58	7.69	250	1300	< 0.003	< 0.001	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0053	0.488	< 0.0025	< 0.002
	2/15/2017	0.56	140	190	0.50	7.81	340	1200	< 0.003	< 0.001	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0058	< 0.347	< 0.0025	< 0.002
	5/5/2017	0.46	130	180	0.52	8.12	360	1100	< 0.003	0.0032	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.00057	0.01	< 0.0002	< 0.005	0.612	< 0.0025	< 0.002
	6/21/2017	0.53	120	190	0.51	8.10	320	1200	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.0051	0.629	< 0.0025	< 0.002
	8/28/2017	0.65	120	200	0.53	7.81	310	1200	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.005	0.498	< 0.0025	< 0.002
	11/6/2017	0.67	120	190	0.57	7.74	400	1200	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.011	< 0.0002	0.0057	0.755	< 0.0025	< 0.002
	5/14/2018	0.57	130	180	0.59	8.27	440	1200	< 0.003	< 0.001	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0052	0.641	< 0.0025	< 0.002
	8/6/2018	0.58	120	230	0.57	7.88	270	1100	< 0.003	< 0.001	0.12	<^ 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.0052	1.02	< 0.0025	< 0.002
	4/29/2019	0.54	120	180	0.61	7.77	170	1000	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	< 0.005	< 0.445	< 0.0025	< 0.002
	11/13/2019	0.79	130	180	0.56	8.26	210	1100	NA	0.0013	0.12	NA	< 0.0005	NA	< 0.001	< 0.0005	0.014	< 0.0002	< 0.005	< 0.49	< 0.0025	< 0.002
	4/27/2020	0.60	120	170	0.69	7.90	180	1000	NA	< 0.001	0.12	NA	< 0.0005	NA	< 0.001	< 0.0005	0.016	< 0.0002	< 0.005	< 0.526	< 0.0025	< 0.002
	12/7/2020	0.75	110	F1 150	0.70	7.70	160	910	NA	0.0032	0.11	NA	< 0.0005	NA	< 0.001	< 0.0005	0.014	< 0.0002	0.061	< 0.497	< 0.0025	< 0.002
	5/10/2021	0.66	130	140	0.66	8.02	350	880	< 0.003	< 0.001	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.013	< 0.0002	0.005	< 0.544	< 0.0025	< 0.002
	8/26/2021	0.52	140	140	0.56	7.97	340	1000	< 0.003	0.0023	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.014	< 0.0002	0.03	0.633	< 0.0025	< 0.002
	12/1/2021	0.61	140	150	0.59	7.93	^- 310	1200	< 0.003	0.0036	0.15	< 0.001	< 0.005	< 0.0005	< 0.001	0.00062	0.015	< 0.0002	0.018	< 0.514	< 0.0025	< 0.002
	2/8/2022	0.55	130	150	0.60	7.81	270	1200	< 0.003	0.01	0.26	< 0.001	< 0.0005	0.01	0.0034	0.005	0.014	< 0.0002	0.013	1.6	< 0.0025	< 0.002
	6/6/2022	0.65	120	150	0.55	8.01	230	1000	< 0.003	< 0.001	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.012	< 0.0002	0.0067	0.832	< 0.0025	< 0.002
	8/30/2022	0.66	130	160	0.55	7.82	240	1400	< 0.003	0.0085	0.23	< 0.001	< 0.0005	0.0071	0.0027	0.0039	0.016	< 0.0002	0.0056	0.645	< 0.0025	< 0.002
	11/16/2022	0.54	110	160	0.63	7.90	220	1100	< 0.003	0.0069	0.28	< 0.001	< 0.0005	0.017	0.0056	0.0092	0.019	< 0.0002	0.007	4.93	< 0.0025	< 0.002

Notes: All units are in mg/l except pH is in standard units.
F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
V- Serial dilution exceeds control limits.

* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
(R) - Resample Event
NA - Not Analyzed

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

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/11/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
	11/30/2021	5.43
	2/9/2022	11.5
	6/7/2022	3.63
	8/30/2022	4.73
MW-09	2/24/2021	16.90
	4/9/2021	5.73
	5/13/2021	0.49
	6/2/2021	2.37
	6/29/2021	4.53
	7/19/2021	6.12
	8/25/2021	16.65
	9/30/2021	3.2
	12/1/2021	0.0
	2/10/2022	0.0
	6/8/2022	6.93
	8/31/2022	4.95
MW-19	2/22/2021	0.56
	4/9/2021	4.25
	5/10/2021	1.80
	6/2/2021	5.77
	6/29/2021	8.79
	7/19/2021	7.30
	8/26/2021	30.91
	9/30/2021	2.92
	12/1/2021	0.0
	2/7/2022	3.54
	6/6/2022	2.35
	8/30/2022	3.56
MW-08	2/23/2021	47.30
	4/9/2021	23.05
	5/11/2021	8.93
	6/3/2021	11.11
	6/29/2021	5.48
	7/19/2021	6.86
	8/25/2021	6.80
	9/30/2021	5.01
	12/1/2021	5.01
	2/10/2022	14.98
	6/8/2022	8.65
	8/30/2022	9.75

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

Well	Date	Turbidity (NTU)
MW-11	2/25/2021	35.10
	4/9/2021	41.53
	5/13/2021	14.70
	6/3/2021	14.92
	6/29/2021	40.48
	7/19/2021	25.73
	8/25/2021	55.39
	9/30/2021	4.06
	12/1/2021	2.48
	2/10/2022	9.29
	6/8/2022	77.21
	8/31/2022	66.8
MW-12	2/25/2021	26.50
	4/9/2021	66.11
	5/13/2021	5.17
	6/3/2021	106.47
	6/29/2021	21.40
	7/19/2021	22.70
	8/25/2021	12.62
	9/30/2021	18.66
	12/1/2021	29.27
	2/10/2022	7.08
	6/8/2022	57.5
	8/31/2022	703.1
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/9/2022	9.38
	6/8/2022	10.32
	8/31/2022	28.7
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/29/2021	8.86
	2/7/2022	11.19
	6/8/2022	41.49
	8/31/2022	22.58
MW-18	2/22/2021	3.40
	4/9/2021	4.62
	5/10/2021	2.28
	6/3/2021	2.38
	6/29/2021	3.96
	7/19/2021	5.19
	8/26/2021	7.96
	9/30/2021	37.94
	12/1/2021	5.88
	2/8/2022	39.3
	6/6/2022	2.73
	8/30/2022	5.66

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/20/2022 10:42:03 AM

JOB DESCRIPTION

Powerton CCR ABB/SB

JOB NUMBER

500-225519-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization

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Authorized for release by
Diana Mockler, Project Manager I
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(219)252-7570

Table of Contents

Job ID: 500-225519-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-225519-1

Comments
No additional comments.

Receipt
The samples were received on 11/16/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were -2.3º C, 0.6º C, 1.1º C and 1.1º C.

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

General Chemistry
Methods 9038, SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 500-687313 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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 ABB/SB

Job ID: 500-225519-1

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

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

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

Job ID: 500-225519-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225519-1	MW-01	Water	11/15/22 09:56	11/16/22 10:30
500-225519-2	MW-08	Water	11/15/22 12:22	11/16/22 10:30
500-225519-3	MW-09	Water	11/15/22 13:18	11/16/22 10:30
500-225519-4	MW-11	Water	11/15/22 16:20	11/16/22 10:30
500-225519-5	MW-12	Water	11/15/22 15:16	11/16/22 10:30
500-225519-6	MW-18	Water	11/16/22 09:45	11/17/22 10:10
500-225519-7	MW-19	Water	11/16/22 08:45	11/17/22 10:10
500-225519-8	Duplicate	Water	11/16/22 00:00	11/17/22 10:10
500-225519-9	MW-15	Water	11/16/22 10:30	11/18/22 10:00
500-225519-10	MW-17	Water	11/16/22 12:20	11/18/22 10:00

Client Sample Results

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

Job ID: 500-225519-1

Client Sample ID: MW-01

Date Collected: 11/15/22 09:56
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-1

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 18:29	1
Arsenic	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:29	1
Barium	**0.088**		0.0025		mg/L		12/01/22 09:40	12/01/22 18:29	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:29	1
Boron	**0.71**		0.050		mg/L		12/01/22 09:40	12/01/22 18:29	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:29	1
Calcium	**110**		0.20		mg/L		12/01/22 09:40	12/01/22 18:29	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 18:29	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:29	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:29	1
Lithium	<0.010		0.010		mg/L		12/01/22 09:40	12/01/22 18:29	1
Molybdenum	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 18:29	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 18:29	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 18:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 06:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**520**		10		mg/L			11/18/22 05:46	1
Chloride (SM 4500 Cl- E)	**45**		4.0		mg/L			11/30/22 12:45	2
Fluoride (SM 4500 F C)	**0.10**		0.10		mg/L			12/01/22 13:15	1
Sulfate (SM 4500 SO4 E)	**44**		25		mg/L			11/29/22 09:51	5

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

Job ID: 500-225519-1

Client Sample ID: MW-08

Date Collected: 11/15/22 12:22
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-2

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 18:47	1
Arsenic	**0.0030**		0.0010		mg/L		12/01/22 09:40	12/01/22 18:47	1
Barium	**0.13**		0.0025		mg/L		12/01/22 09:40	12/01/22 18:47	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:47	1
Boron	**0.68**		0.050		mg/L		12/01/22 09:40	12/01/22 18:47	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:47	1
Calcium	**130**		0.20		mg/L		12/01/22 09:40	12/01/22 18:47	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 18:47	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:47	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:47	1
Lithium	**0.023**		0.010		mg/L		12/01/22 09:40	12/01/22 18:47	1
Molybdenum	**0.0083**		0.0050		mg/L		12/01/22 09:40	12/01/22 18:47	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 18:47	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 18:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 06:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**780**		10		mg/L			11/18/22 05:48	1
Chloride (SM 4500 Cl- E)	**200**		20		mg/L			11/30/22 12:46	10
Fluoride (SM 4500 F C)	**0.45**		0.10		mg/L			12/01/22 10:09	1
Sulfate (SM 4500 SO4 E)	**41**		25		mg/L			11/29/22 09:51	5

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

Job ID: 500-225519-1

Client Sample ID: MW-09

Date Collected: 11/15/22 13:18
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-3

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 18:50	1
Arsenic	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:50	1
Barium	**0.039**		0.0025		mg/L		12/01/22 09:40	12/01/22 18:50	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:50	1
Boron	**3.7**		0.050		mg/L		12/01/22 09:40	12/01/22 18:50	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:50	1
Calcium	**77**		0.20		mg/L		12/01/22 09:40	12/01/22 18:50	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 18:50	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:50	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:50	1
Lithium	<0.010		0.010		mg/L		12/01/22 09:40	12/01/22 18:50	1
Molybdenum	**0.031**		0.0050		mg/L		12/01/22 09:40	12/01/22 18:50	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 18:50	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 18:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 06:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**490**		10		mg/L			11/18/22 05:51	1
Chloride (SM 4500 Cl- E)	**32**		2.0		mg/L			11/30/22 12:44	1
Fluoride (SM 4500 F C)	**0.25**		0.10		mg/L			12/01/22 13:56	1
Sulfate (SM 4500 SO4 E)	**130**		50		mg/L			11/29/22 09:51	10

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

Job ID: 500-225519-1

Client Sample ID: MW-11

Date Collected: 11/15/22 16:20
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-4

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 18:53	1
Arsenic	**0.015**		0.0010		mg/L		12/01/22 09:40	12/01/22 18:53	1
Barium	**0.16**		0.0025		mg/L		12/01/22 09:40	12/01/22 18:53	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:53	1
Boron	**2.2**		0.050		mg/L		12/01/22 09:40	12/01/22 18:53	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:53	1
Calcium	**110**		0.20		mg/L		12/01/22 09:40	12/01/22 18:53	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 18:53	1
Cobalt	**0.0017**		0.0010		mg/L		12/01/22 09:40	12/01/22 18:53	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:53	1
Lithium	<0.010		0.010		mg/L		12/01/22 09:40	12/01/22 18:53	1
Molybdenum	**0.016**		0.0050		mg/L		12/01/22 09:40	12/01/22 18:53	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 18:53	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 18:53	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 06:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**690**		10		mg/L			11/18/22 05:54	1
Chloride (SM 4500 Cl- E)	**61**		20		mg/L			11/30/22 12:46	10
Fluoride (SM 4500 F C)	**0.84**		0.10		mg/L			12/01/22 10:09	1
Sulfate (SM 4500 SO4 E)	**110**		50		mg/L			11/29/22 09:52	10

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

Job ID: 500-225519-1

Client Sample ID: MW-12

Date Collected: 11/15/22 15:16
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-5

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 19:04	1
Arsenic	**0.032**		0.0010		mg/L		12/01/22 09:40	12/01/22 19:04	1
Barium	**0.072**		0.0025		mg/L		12/01/22 09:40	12/01/22 19:04	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:04	1
Boron	**0.58**		0.050		mg/L		12/01/22 09:40	12/01/22 19:04	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:04	1
Calcium	**90**		0.20		mg/L		12/01/22 09:40	12/01/22 19:04	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 19:04	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:04	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:04	1
Lithium	**0.014**		0.010		mg/L		12/01/22 09:40	12/01/22 19:04	1
Molybdenum	**0.020**		0.0050		mg/L		12/01/22 09:40	12/01/22 19:04	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 19:04	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 19:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 06:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**810**		10		mg/L			11/18/22 05:56	1
Chloride (SM 4500 Cl- E)	**150**		20		mg/L			11/30/22 12:47	10
Fluoride (SM 4500 F C)	**0.74**		0.10		mg/L			12/01/22 10:09	1
Sulfate (SM 4500 SO4 E)	**220**		50		mg/L			11/29/22 09:52	10

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

Job ID: 500-225519-1

Client Sample ID: MW-18

Date Collected: 11/16/22 09:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-6

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 19:07	1
Arsenic	**0.0069**		0.0010		mg/L		12/01/22 09:40	12/01/22 19:07	1
Barium	**0.28**		0.0025		mg/L		12/01/22 09:40	12/01/22 19:07	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:07	1
Boron	**0.54**		0.050		mg/L		12/01/22 09:40	12/01/22 19:07	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:07	1
Calcium	**110**		0.20		mg/L		12/01/22 09:40	12/01/22 19:07	1
Chromium	**0.017**		0.0050		mg/L		12/01/22 09:40	12/01/22 19:07	1
Cobalt	**0.0056**		0.0010		mg/L		12/01/22 09:40	12/01/22 19:07	1
Lead	**0.0092**		0.00050		mg/L		12/01/22 09:40	12/01/22 19:07	1
Lithium	**0.019**		0.010		mg/L		12/01/22 09:40	12/01/22 19:07	1
Molybdenum	**0.0070**		0.0050		mg/L		12/01/22 09:40	12/01/22 19:07	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 19:07	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 19:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 07:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1100**		10		mg/L			11/21/22 05:08	1
Chloride (SM 4500 Cl- E)	**160**		20		mg/L			11/30/22 12:47	10
Fluoride (SM 4500 F C)	**0.63**		0.10		mg/L			12/01/22 10:09	1
Sulfate (SM 4500 SO4 E)	**220**		50		mg/L			11/29/22 09:53	10

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

Job ID: 500-225519-1

Client Sample ID: MW-19

Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-7

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 19:11	1
Arsenic	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:11	1
Barium	**0.064**		0.0025		mg/L		12/01/22 09:40	12/01/22 19:11	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:11	1
Boron	**4.3**		0.050		mg/L		12/01/22 09:40	12/01/22 19:11	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:11	1
Calcium	**80**		0.20		mg/L		12/01/22 09:40	12/01/22 19:11	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 19:11	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:11	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:11	1
Lithium	<0.010		0.010		mg/L		12/01/22 09:40	12/01/22 19:11	1
Molybdenum	**0.041**		0.0050		mg/L		12/01/22 09:40	12/01/22 19:11	1
Selenium	**0.0029**		0.0025		mg/L		12/01/22 09:40	12/01/22 19:11	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 19:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 07:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**580**		10		mg/L			11/21/22 05:10	1
Chloride (SM 4500 Cl- E)	**34**		10		mg/L			11/30/22 12:47	5
Fluoride (SM 4500 F C)	**0.22**		0.10		mg/L			12/01/22 10:09	1
Sulfate (SM 4500 SO4 E)	**160**		25		mg/L			11/29/22 09:54	5

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

Job ID: 500-225519-1

Client Sample ID: Duplicate

Date Collected: 11/16/22 00:00
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-8

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 19:14	1
Arsenic	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:14	1
Barium	**0.064**		0.0025		mg/L		12/01/22 09:40	12/01/22 19:14	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:14	1
Boron	**4.4**		0.050		mg/L		12/01/22 09:40	12/01/22 19:14	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:14	1
Calcium	**81**		0.20		mg/L		12/01/22 09:40	12/01/22 19:14	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 19:14	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:14	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:14	1
Lithium	<0.010		0.010		mg/L		12/01/22 09:40	12/01/22 19:14	1
Molybdenum	**0.042**		0.0050		mg/L		12/01/22 09:40	12/01/22 19:14	1
Selenium	**0.0028**		0.0025		mg/L		12/01/22 09:40	12/01/22 19:14	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 19:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 07:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**610**		10		mg/L			11/21/22 05:13	1
Chloride (SM 4500 Cl- E)	**34**		4.0		mg/L			11/30/22 12:48	2
Fluoride (SM 4500 F C)	**0.22**		0.10		mg/L			12/01/22 10:09	1
Sulfate (SM 4500 SO4 E)	**160**		25		mg/L			11/29/22 09:54	5

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

Job ID: 500-225519-1

Client Sample ID: MW-15

Date Collected: 11/16/22 10:30
Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-9

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 19:18	1
Arsenic	**0.0071**		0.0010		mg/L		12/01/22 09:40	12/01/22 19:18	1
Barium	**0.060**		0.0025		mg/L		12/01/22 09:40	12/01/22 19:18	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:18	1
Boron	**1.3**		0.050		mg/L		12/01/22 09:40	12/01/22 19:18	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:18	1
Calcium	**190**		0.20		mg/L		12/01/22 09:40	12/01/22 19:18	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 19:18	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:18	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:18	1
Lithium	**0.025**		0.010		mg/L		12/01/22 09:40	12/01/22 19:18	1
Molybdenum	**0.055**		0.0050		mg/L		12/01/22 09:40	12/01/22 19:18	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 19:18	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 19:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 07:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1500**		10		mg/L			11/21/22 05:15	1
Chloride (SM 4500 Cl- E)	**230**		20		mg/L			11/30/22 12:48	10
Fluoride (SM 4500 F C)	**0.71**		0.10		mg/L			12/01/22 10:09	1
Sulfate (SM 4500 SO4 E)	**450**		100		mg/L			11/29/22 09:54	20

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

Job ID: 500-225519-1

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20
Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-10

Matrix: Water

Method: SW846 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 19:21	1
Arsenic	**0.0058**		0.0010		mg/L		12/01/22 09:40	12/01/22 19:21	1
Barium	**0.040**		0.0025		mg/L		12/01/22 09:40	12/01/22 19:21	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:21	1
Boron	**1.1**		0.050		mg/L		12/01/22 09:40	12/01/22 19:21	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:21	1
Calcium	**150**		0.20		mg/L		12/01/22 09:40	12/01/22 19:21	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 19:21	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 19:21	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 19:21	1
Lithium	**0.013**		0.010		mg/L		12/01/22 09:40	12/01/22 19:21	1
Molybdenum	**0.028**		0.0050		mg/L		12/01/22 09:40	12/01/22 19:21	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 19:21	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 19:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 07:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	**1400**		10		mg/L			11/21/22 05:18	1
Chloride (SM 4500 Cl- E)	**170**		20		mg/L			11/30/22 12:48	10
Fluoride (SM 4500 F C)	**0.98**		0.10		mg/L			12/01/22 10:09	1
Sulfate (SM 4500 SO4 E)	**530**		250		mg/L			11/29/22 10:27	50

Qualifiers

Metals

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

General Chemistry

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

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: 686509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total/NA	Water	7470A	
500-225519-2	MW-08	Total/NA	Water	7470A	
500-225519-3	MW-09	Total/NA	Water	7470A	
500-225519-4	MW-11	Total/NA	Water	7470A	
500-225519-5	MW-12	Total/NA	Water	7470A	
500-225519-6	MW-18	Total/NA	Water	7470A	
500-225519-7	MW-19	Total/NA	Water	7470A	
500-225519-8	Duplicate	Total/NA	Water	7470A	
500-225519-9	MW-15	Total/NA	Water	7470A	
500-225519-10	MW-17	Total/NA	Water	7470A	
MB 500-686509/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-686509/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-225519-4 MS	MW-11	Total/NA	Water	7470A	
500-225519-4 MSD	MW-11	Total/NA	Water	7470A	
500-225519-4 DU	MW-11	Total/NA	Water	7470A	

Analysis Batch: 686793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total/NA	Water	7470A	686509
500-225519-2	MW-08	Total/NA	Water	7470A	686509
500-225519-3	MW-09	Total/NA	Water	7470A	686509
500-225519-4	MW-11	Total/NA	Water	7470A	686509
500-225519-5	MW-12	Total/NA	Water	7470A	686509
500-225519-6	MW-18	Total/NA	Water	7470A	686509
500-225519-7	MW-19	Total/NA	Water	7470A	686509
500-225519-8	Duplicate	Total/NA	Water	7470A	686509
500-225519-9	MW-15	Total/NA	Water	7470A	686509
500-225519-10	MW-17	Total/NA	Water	7470A	686509
MB 500-686509/12-A	Method Blank	Total/NA	Water	7470A	686509
LCS 500-686509/13-A	Lab Control Sample	Total/NA	Water	7470A	686509
500-225519-4 MS	MW-11	Total/NA	Water	7470A	686509
500-225519-4 MSD	MW-11	Total/NA	Water	7470A	686509
500-225519-4 DU	MW-11	Total/NA	Water	7470A	686509

Prep Batch: 687711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total Recoverable	Water	3005A	
500-225519-2	MW-08	Total Recoverable	Water	3005A	
500-225519-3	MW-09	Total Recoverable	Water	3005A	
500-225519-4	MW-11	Total Recoverable	Water	3005A	
500-225519-5	MW-12	Total Recoverable	Water	3005A	
500-225519-6	MW-18	Total Recoverable	Water	3005A	
500-225519-7	MW-19	Total Recoverable	Water	3005A	
500-225519-8	Duplicate	Total Recoverable	Water	3005A	
500-225519-9	MW-15	Total Recoverable	Water	3005A	
500-225519-10	MW-17	Total Recoverable	Water	3005A	
MB 500-687711/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-687711/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-225519-1 MS	MW-01	Total Recoverable	Water	3005A	
500-225519-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-225519-1 DU	MW-01	Total Recoverable	Water	3005A	

Metals

Analysis Batch: 687931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total Recoverable	Water	6020A	687711
500-225519-2	MW-08	Total Recoverable	Water	6020A	687711
500-225519-3	MW-09	Total Recoverable	Water	6020A	687711
500-225519-4	MW-11	Total Recoverable	Water	6020A	687711
500-225519-5	MW-12	Total Recoverable	Water	6020A	687711
500-225519-6	MW-18	Total Recoverable	Water	6020A	687711
500-225519-7	MW-19	Total Recoverable	Water	6020A	687711
500-225519-8	Duplicate	Total Recoverable	Water	6020A	687711
500-225519-9	MW-15	Total Recoverable	Water	6020A	687711
500-225519-10	MW-17	Total Recoverable	Water	6020A	687711
MB 500-687711/1-A	Method Blank	Total Recoverable	Water	6020A	687711
LCS 500-687711/2-A	Lab Control Sample	Total Recoverable	Water	6020A	687711
500-225519-1 MS	MW-01	Total Recoverable	Water	6020A	687711
500-225519-1 MSD	MW-01	Total Recoverable	Water	6020A	687711
500-225519-1 DU	MW-01	Total Recoverable	Water	6020A	687711

General Chemistry

Analysis Batch: 603148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total/NA	Water	SM 4500 F C	
500-225519-3	MW-09	Total/NA	Water	SM 4500 F C	
MB 400-603148/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-603148/13	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-603148/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-225519-1 MS	MW-01	Total/NA	Water	SM 4500 F C	
500-225519-1 MSD	MW-01	Total/NA	Water	SM 4500 F C	
500-225519-3 DU	MW-09	Total/NA	Water	SM 4500 F C	

Analysis Batch: 603174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-2	MW-08	Total/NA	Water	SM 4500 F C	
500-225519-4	MW-11	Total/NA	Water	SM 4500 F C	
500-225519-5	MW-12	Total/NA	Water	SM 4500 F C	
500-225519-6	MW-18	Total/NA	Water	SM 4500 F C	
500-225519-7	MW-19	Total/NA	Water	SM 4500 F C	
500-225519-8	Duplicate	Total/NA	Water	SM 4500 F C	
500-225519-9	MW-15	Total/NA	Water	SM 4500 F C	
500-225519-10	MW-17	Total/NA	Water	SM 4500 F C	
MB 400-603174/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-603174/13	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-603174/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-225519-2 MS	MW-08	Total/NA	Water	SM 4500 F C	
500-225519-2 MSD	MW-08	Total/NA	Water	SM 4500 F C	
500-225519-4 DU	MW-11	Total/NA	Water	SM 4500 F C	

Analysis Batch: 685755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total/NA	Water	SM 2540C	
500-225519-2	MW-08	Total/NA	Water	SM 2540C	
500-225519-3	MW-09	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 685755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-4	MW-11	Total/NA	Water	SM 2540C	
500-225519-5	MW-12	Total/NA	Water	SM 2540C	
MB 500-685755/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-685755/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 686167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-6	MW-18	Total/NA	Water	SM 2540C	
500-225519-7	MW-19	Total/NA	Water	SM 2540C	
500-225519-8	Duplicate	Total/NA	Water	SM 2540C	
500-225519-9	MW-15	Total/NA	Water	SM 2540C	
500-225519-10	MW-17	Total/NA	Water	SM 2540C	
MB 500-686167/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-686167/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 687313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-225519-2	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-225519-3	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-225519-4	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-225519-5	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-225519-6	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-225519-7	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-225519-8	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-225519-9	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-225519-10	MW-17	Total/NA	Water	SM 4500 SO4 E	
MB 500-687313/130	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-687313/94	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-687313/131	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-687313/95	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-225519-10 MS	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-225519-10 MSD	MW-17	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 687566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-225519-2	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-225519-3	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-225519-4	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-225519-5	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-225519-6	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-225519-7	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-225519-8	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-225519-9	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-225519-10	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-687566/181	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-687566/182	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-225519-3 MS	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-225519-3 MSD	MW-09	Total/NA	Water	SM 4500 Cl- E	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-687711/1-A
Matrix: Water
Analysis Batch: 687931

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 687711

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/01/22 09:40	12/01/22 18:22	1
Arsenic	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:22	1
Barium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 18:22	1
Beryllium	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:22	1
Boron	<0.050		0.050		mg/L		12/01/22 09:40	12/01/22 18:22	1
Cadmium	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:22	1
Calcium	<0.20		0.20		mg/L		12/01/22 09:40	12/01/22 18:22	1
Chromium	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 18:22	1
Cobalt	<0.0010		0.0010		mg/L		12/01/22 09:40	12/01/22 18:22	1
Lead	<0.00050		0.00050		mg/L		12/01/22 09:40	12/01/22 18:22	1
Lithium	<0.010		0.010		mg/L		12/01/22 09:40	12/01/22 18:22	1
Molybdenum	<0.0050		0.0050		mg/L		12/01/22 09:40	12/01/22 18:22	1
Selenium	<0.0025		0.0025		mg/L		12/01/22 09:40	12/01/22 18:22	1
Thallium	<0.0020		0.0020		mg/L		12/01/22 09:40	12/01/22 18:22	1

Lab Sample ID: LCS 500-687711/2-A
Matrix: Water
Analysis Batch: 687931

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 687711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.533		mg/L		107	80 - 120
Arsenic	0.100	0.0962		mg/L		96	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Beryllium	0.0500	0.0486		mg/L		97	80 - 120
Boron	1.00	1.00		mg/L		100	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.527		mg/L		105	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.501		mg/L		100	80 - 120
Molybdenum	1.00	0.961		mg/L		96	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: 500-225519-1 MS
Matrix: Water
Analysis Batch: 687931

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 687711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.545		mg/L		109	75 - 125
Arsenic	<0.0010		0.100	0.0984		mg/L		98	75 - 125
Barium	0.088		2.00	2.09		mg/L		100	75 - 125
Beryllium	<0.0010		0.0500	0.0471		mg/L		94	75 - 125
Boron	0.71		1.00	1.70		mg/L		98	75 - 125
Cadmium	<0.00050		0.0500	0.0497		mg/L		99	75 - 125
Calcium	110		10.0	121	4	mg/L		80	75 - 125
Chromium	<0.0050		0.200	0.197		mg/L		98	75 - 125
Cobalt	<0.0010		0.500	0.500		mg/L		100	75 - 125

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

Lab Sample ID: 500-225519-1 MS
Matrix: Water
Analysis Batch: 687931

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 687711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125
Lithium	<0.010		0.500	0.491		mg/L		97	75 - 125
Molybdenum	<0.0050		1.00	0.990		mg/L		99	75 - 125
Selenium	<0.0025		0.100	0.103		mg/L		102	75 - 125
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125

Lab Sample ID: 500-225519-1 MSD
Matrix: Water
Analysis Batch: 687931

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 687711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.545		mg/L		109	75 - 125	0	20
Arsenic	<0.0010		0.100	0.0974		mg/L		97	75 - 125	1	20
Barium	0.088		2.00	2.15		mg/L		103	75 - 125	3	20
Beryllium	<0.0010		0.0500	0.0466		mg/L		93	75 - 125	1	20
Boron	0.71		1.00	1.73		mg/L		102	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0492		mg/L		98	75 - 125	1	20
Calcium	110		10.0	124	4	mg/L		116	75 - 125	3	20
Chromium	<0.0050		0.200	0.207		mg/L		104	75 - 125	5	20
Cobalt	<0.0010		0.500	0.507		mg/L		101	75 - 125	1	20
Lead	<0.00050		0.100	0.105		mg/L		105	75 - 125	2	20
Lithium	<0.010		0.500	0.501		mg/L		99	75 - 125	2	20
Molybdenum	<0.0050		1.00	0.996		mg/L		100	75 - 125	1	20
Selenium	<0.0025		0.100	0.102		mg/L		101	75 - 125	1	20
Thallium	<0.0020		0.100	0.107		mg/L		107	75 - 125	3	20

Lab Sample ID: 500-225519-1 DU
Matrix: Water
Analysis Batch: 687931

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 687711

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.088		0.0881		mg/L		0.3	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.71		0.738		mg/L		4	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	110		114		mg/L		1	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Lithium	<0.010		<0.010		mg/L		NC	20
Molybdenum	<0.0050		<0.0050		mg/L		NC	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-686509/12-A
Matrix: Water
Analysis Batch: 686793

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 686509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/22/22 10:10	11/23/22 06:08	1

Lab Sample ID: LCS 500-686509/13-A
Matrix: Water
Analysis Batch: 686793

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 686509

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.00198	0.00175		mg/L		88	80 - 120		

Lab Sample ID: 500-225519-4 MS
Matrix: Water
Analysis Batch: 686793

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 686509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125		

Lab Sample ID: 500-225519-4 MSD
Matrix: Water
Analysis Batch: 686793

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 686509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	1	20

Lab Sample ID: 500-225519-4 DU
Matrix: Water
Analysis Batch: 686793

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 686509

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

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

Lab Sample ID: MB 500-685755/1
Matrix: Water
Analysis Batch: 685755

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			11/18/22 05:23	1

Lab Sample ID: LCS 500-685755/2
Matrix: Water
Analysis Batch: 685755

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	272		mg/L		109	80 - 120		

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

Lab Sample ID: MB 500-686167/1
Matrix: Water
Analysis Batch: 686167

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			11/21/22 04:19	1

Lab Sample ID: LCS 500-686167/2
Matrix: Water
Analysis Batch: 686167

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	260		mg/L		104	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-687566/181
Matrix: Water
Analysis Batch: 687566

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			11/30/22 12:44	1

Lab Sample ID: LCS 500-687566/182
Matrix: Water
Analysis Batch: 687566

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	22.0		mg/L		110	85 - 115

Lab Sample ID: 500-225519-3 MS
Matrix: Water
Analysis Batch: 687566

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	32		20.0	52.9		mg/L		104	75 - 125

Lab Sample ID: 500-225519-3 MSD
Matrix: Water
Analysis Batch: 687566

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	32		20.0	53.2		mg/L		105	75 - 125	1	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-603148/10
Matrix: Water
Analysis Batch: 603148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			12/01/22 13:04	1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 400-603148/13
Matrix: Water
Analysis Batch: 603148

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.02		mg/L		100	90 - 110

Lab Sample ID: MRL 400-603148/12
Matrix: Water
Analysis Batch: 603148

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.109		mg/L		109	

Lab Sample ID: 500-225519-1 MS
Matrix: Water
Analysis Batch: 603148

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.10		0.100	0.201		mg/L		96	75 - 125

Lab Sample ID: 500-225519-1 MSD
Matrix: Water
Analysis Batch: 603148

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.10		0.100	0.201		mg/L		96	75 - 125	0	4

Lab Sample ID: 500-225519-3 DU
Matrix: Water
Analysis Batch: 603148

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.25		0.256		mg/L		4	4

Lab Sample ID: MB 400-603174/10
Matrix: Water
Analysis Batch: 603174

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			12/01/22 10:09	1

Lab Sample ID: LCS 400-603174/13
Matrix: Water
Analysis Batch: 603174

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.02		mg/L		100	90 - 110

Lab Sample ID: MRL 400-603174/12
Matrix: Water
Analysis Batch: 603174

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.100		mg/L		100	

Method: SM 4500 F C - Fluoride

Lab Sample ID: 500-225519-2 MS
Matrix: Water
Analysis Batch: 603174

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.45		0.100	0.556	4	mg/L		102	75 - 125		

Lab Sample ID: 500-225519-2 MSD
Matrix: Water
Analysis Batch: 603174

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.45		0.100	0.556	4	mg/L		102	75 - 125	0	4

Lab Sample ID: 500-225519-4 DU
Matrix: Water
Analysis Batch: 603174

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.84		0.870		mg/L		4	4

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-687313/130
Matrix: Water
Analysis Batch: 687313

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			11/29/22 10:11	1

Lab Sample ID: MB 500-687313/94
Matrix: Water
Analysis Batch: 687313

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			11/29/22 09:45	1

Lab Sample ID: LCS 500-687313/131
Matrix: Water
Analysis Batch: 687313

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	20.0	22.7		mg/L		114	88 - 123		

Lab Sample ID: LCS 500-687313/95
Matrix: Water
Analysis Batch: 687313

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	20.0	22.2		mg/L		111	88 - 123		

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

Lab Sample ID: 500-225519-10 MS
Matrix: Water
Analysis Batch: 687313

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	530		20.0	561	4	mg/L		130	75 - 125		

Lab Sample ID: 500-225519-10 MSD
Matrix: Water
Analysis Batch: 687313

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	530		20.0	541	4	mg/L		32	75 - 125	4	20

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

Chain of Custody Record

eurofins | Environment Testing

Client Information	
Client Contact: Mitchel Dolan	Sampler: Kaelyn Sperle
Company: KPRG and Associates, Inc.	Phone: 262-278-1621
Address: 14665 West Lisbon Road, Suite 1A	PWSID:
City: Brookfield	Due Date Requested: Standard
State, Zip: WI, 53005	TAT Requested (days): Standard
Phone: 262-781-0475(Tel)	Compliance Project: Δ Yes Δ No
Email: mitcheld@kprginc.com	PO #: 4502081030
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling	WO #:
Site: Illinois	Project #: 50011612
	SSOW#:

500-225519 COC

Lab PM: Mockler, Diana J
E-Mail: Diana.Mockler@et.eurofinsus.com
Carrier Tracking No(s):
State of Origin: IL
COC No: 500-106663-43259.1
Page: Page 1 of 1
Job #: 500-225519

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, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E	SM4500_SO4_E - Sulfate	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	N	N		
1	MW-01	11/15/22	0956	G	Water	N	N	X	X	X	X		
2	MW-08	11/15/22	1222	G	Water	N	N	X	X	X	X		
3	MW-09	11/15/22	1318	G	Water	N	N	X	X	X	X		
4	MW-11	11/15/22	1620	G	Water	N	N	X	X	X	X		
5	MW-12	11/15/22	1516	G	Water	N	N	X	X	X	X		
	~~MW-15~~				Water								
	~~MW-17~~				Water								
	~~MW-18~~				Water								
	~~MW-19~~				Water								
					Water								
					Water								

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, Y - Trizma, 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
Kaelyn Sperle	11/15/22 / 1830	KPRG	FedEx	11/15/22 / 1830	FedEx
			[signature]	11/16/22 1030	EETA

Custody Seals Intact: Δ Yes Δ No
Custody Seal No:
Cooler Temperature(s) °C and Other Remarks: 1.0 → 1.1, 1.1 → 0.6

Ver: 06/08/2021

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

Chain of Custody Record

eurofins

Client Information	Sampler: Kaelyn Sperle	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-106663-43259 1
Client Contact: Mitchel Dolan	Phone: 262-278-1621	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates, Inc	PWSID:			Job #: 500-225519

Address: 14665 West Lisbon Road Suite 1A	Due Date Requested: Standard	Analysis Requested	Preservation Codes
City: Brookfield	TAT Requested (days): Standard		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, Y Trizma, Z - other (specify)
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No		
Phone: 262-781-0475(Tel)	PO #: 4502081030		Other:
Email: mitcheld@kprginc.com	WO #:		
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling	Project #: 50011612		
Site: Illinois	SSOW#:		

500-225519 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, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E	SM4500_SO4_E - Sulfate	Total Number of containers	Special Instructions/Note
			Preservation Code:		X	X	D	D	N	N	X	
~~MW-01~~				Water								
~~MW-08~~				Water								
~~MW-09~~				Water								
~~MW-11~~				Water								
~~MW-12~~				Water								
~~MW-15~~				Water								
~~MW-17~~				Water								
6 MW-18	11/16/22	0945	G	Water	N	N	X	X	X	X		
7 MW-19	11/16/22	0845	G	Water	N	N	X	X	X	X		
8 Duplicate	11/16/22	—	G	Water	N	N	X	X	X	X		
				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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Kaelyn Sperle	11/16/22/1715	KPRG	FedEx	11/16/22/1715	FedEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/17/22 1018	Company EST
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: -18 → -23

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

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Kaelyn Sperle	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500-106663-43259 1
Client Contact: Mitchel Dolan	Phone: 262-278-1621	E-Mail: Diana Mockler@et.eurofinsus com	State of Origin: IL	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWSID:			Job #: 500-225519
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested: Standard	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; Y Trizma; Z other (specify); Other:
City: Brookfield	TAT Requested (days): Standard			
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 Event Desc Quarterly Powerton CCR Samplling	Project #: 50011612			
Site: Illinois	SSOW#:			

500-225519 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, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E	SM4500_SO4_E - Sulfate	Total Number of containers	Special Instructions/Note
			Preservation Code:		X	X	D	D	N	N	X	
[redacted]				Water								
[redacted]				Water								
[redacted]				Water								
[redacted]				Water								
[redacted]				Water								
9 MW-15	11/16/22	1030	G	Water	N	N	X	X	X	X		
10 [redacted] MW-17	11/16/22	1220	G	Water	N	N	X	X	X	X		
[redacted]				Water								
[redacted]				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)

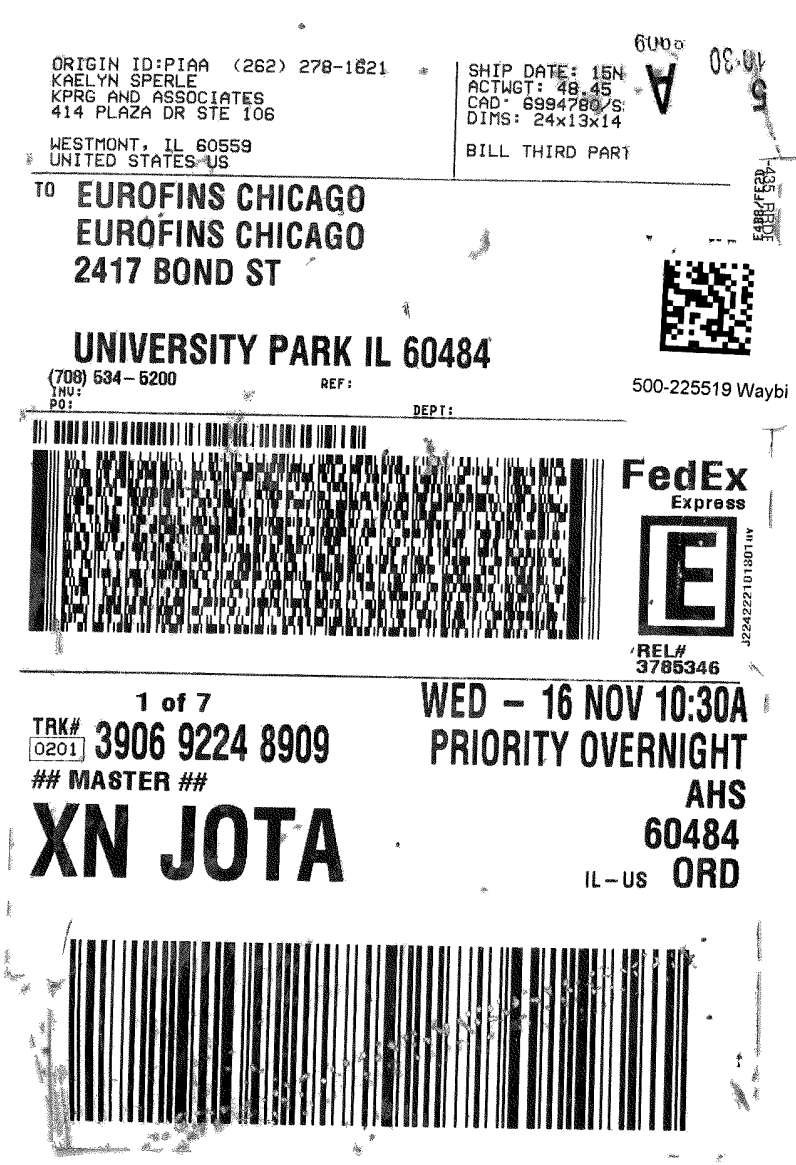
Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Kaelyn Sperle	11/17/22/1600	KPRG	FedEX	11/17/22/1600	KPRG
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
				11/18/22 1000	EPSA
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
		1.6 -> 1.7

12/20/2022



ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 15N
ACTWGT: 48.45
CAD: 6994780/S
DIMS: 24x13x14

BILL THIRD PART

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

500-225519 Waybi

FedEx Express

REL#
3785346

1 of 7
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XN JOTA

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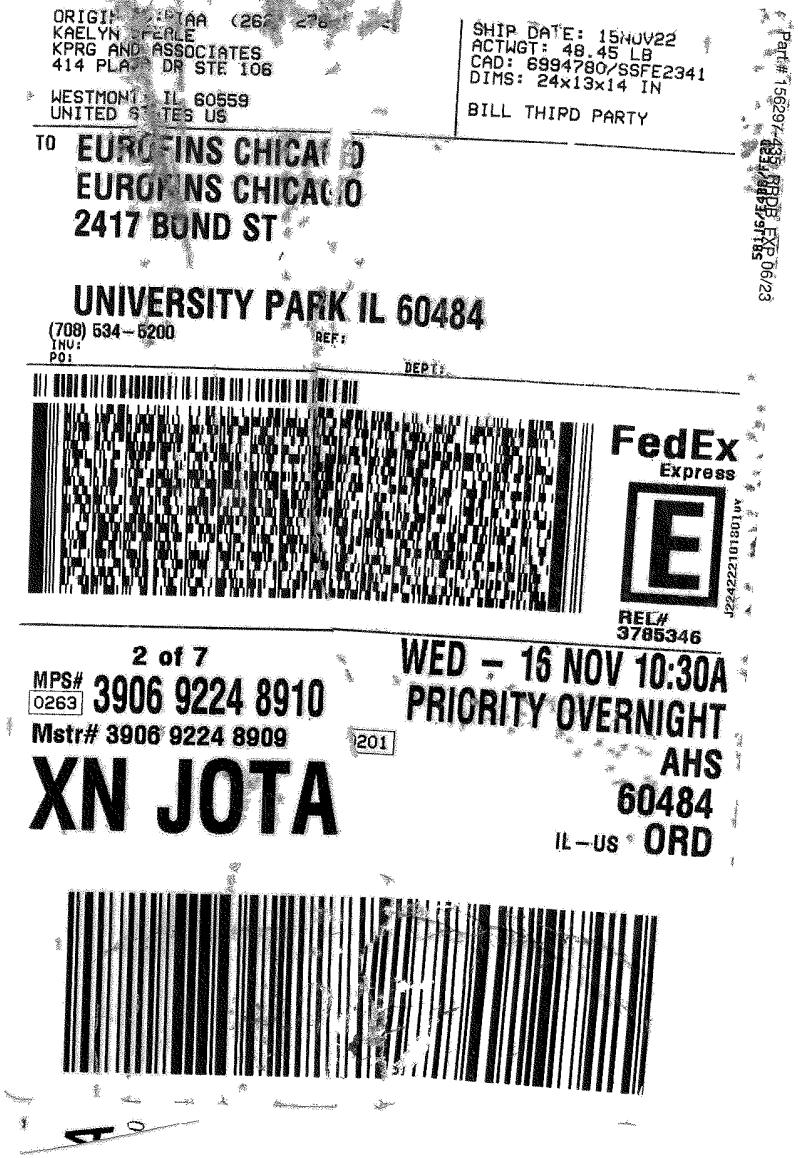
AHS
60484
IL-US ORD



ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 15NOV22
ACTWGT: 48.45 LB
CAD: 6994780/SSFE2341
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

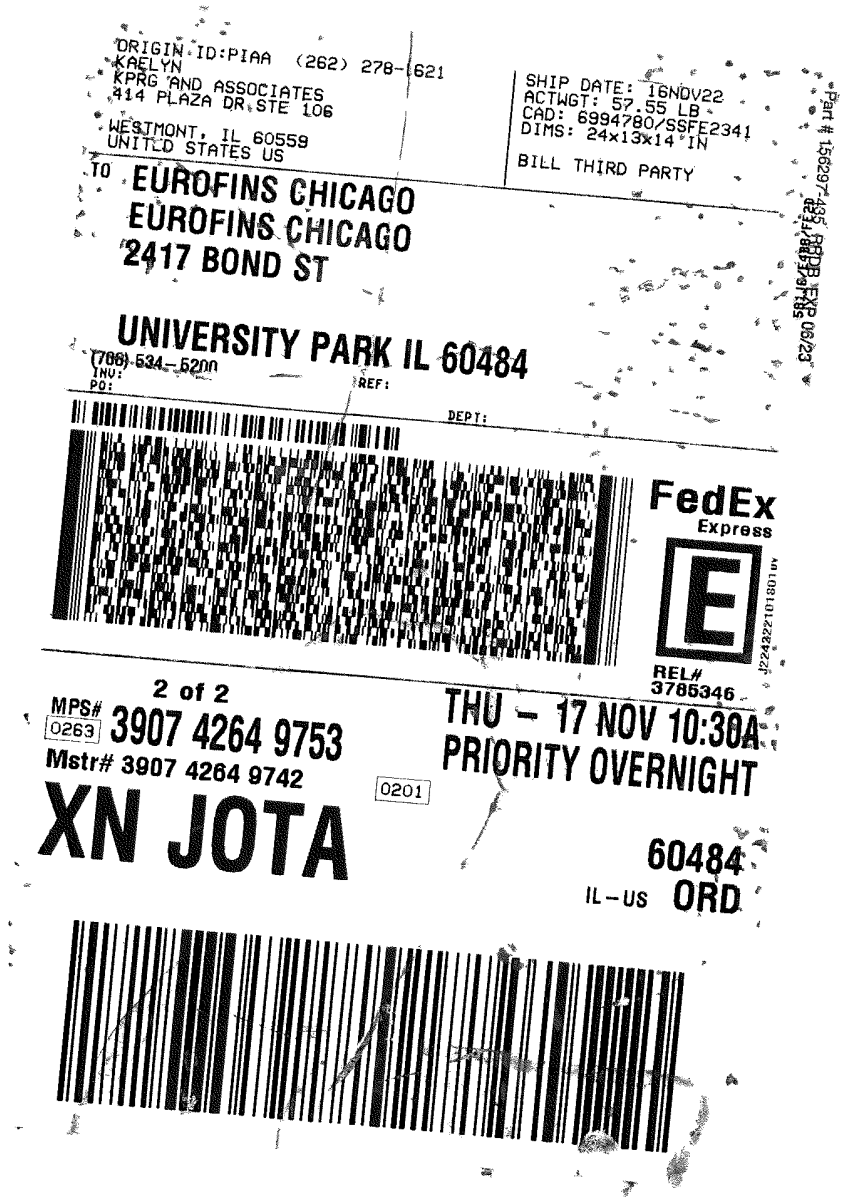
FedEx Express

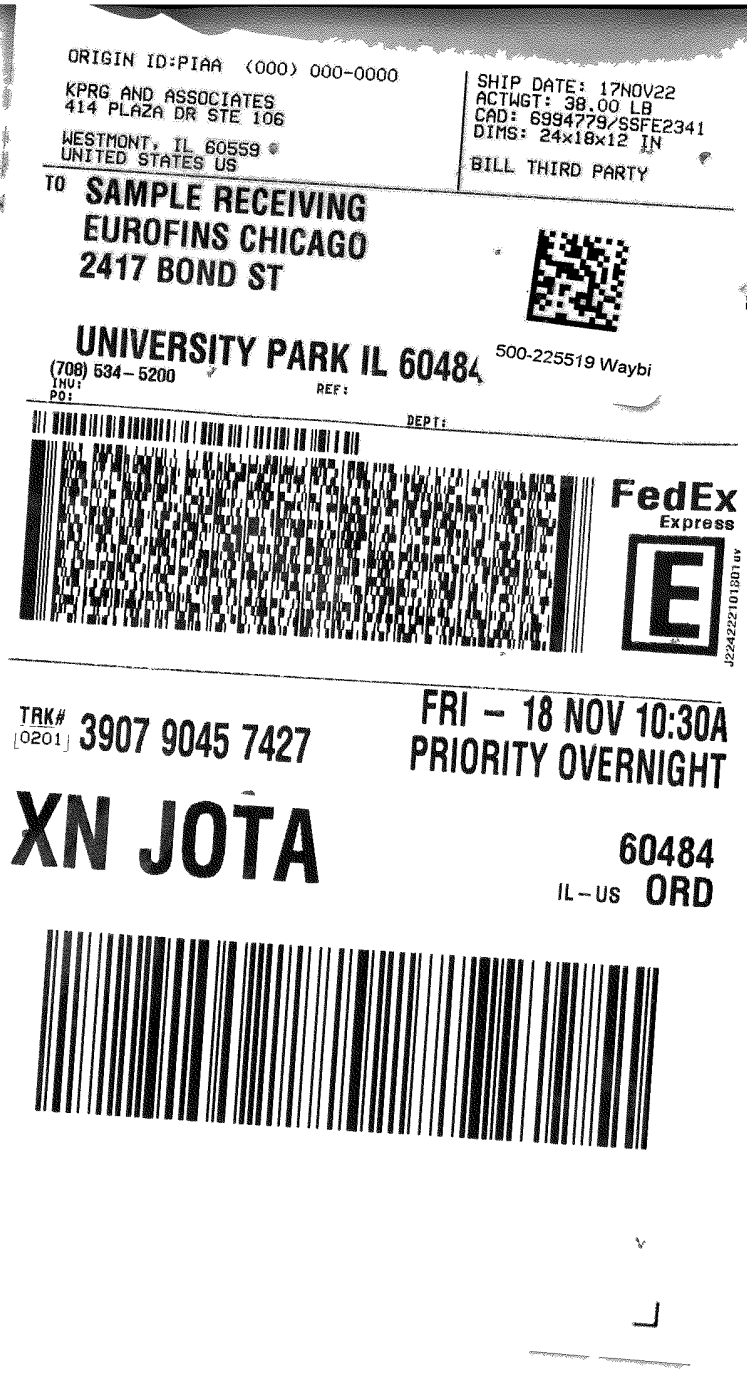
REL#
3785346

2 of 7
MPS# 0263 3906 9224 8910
Mstr# 3906 9224 8909
201
XN JOTA

WED - 16 NOV 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD

500-225519 Waybi




ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US
SHIP DATE: 17NOV22
ACTWGT: 38.00 LB
CAD: 6994779/SSFE2341
DIMS: 24x18x12 IN
BILL THIRD PARTY
TO SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
500-225519 Waybi
FedEx
Express
TRK# 0201 3907 9045 7427
FRI - 18 NOV 10:30A
PRIORITY OVERNIGHT
XN JOTA
60484
IL-US ORD

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-167594.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-225519-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/19/2022			
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, Y - Trizma, 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-01 (500-225519-1)	11/15/22	09:56 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-08 (500-225519-2)	11/15/22	12:22 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-09 (500-225519-3)	11/15/22	13:18 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-11 (500-225519-4)	11/15/22	16:20 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-12 (500-225519-5)	11/15/22	15:16 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed	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) 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
Melissa Carbajal	11/16/22 1600	EETA	FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: Sierra Worthington	Date/Time: NOV 17 2022 0910	Company ETMSL
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:

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-167586.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-225519-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 12/8/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(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, Y - Trizma, 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)	4500_F_C	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-01 (500-225519-1)	11/15/22	09:56 Central		Water			X	1	
MW-08 (500-225519-2)	11/15/22	12:22 Central		Water			X	1	
MW-09 (500-225519-3)	11/15/22	13:18 Central		Water			X	1	
MW-11 (500-225519-4)	11/15/22	16:20 Central		Water			X	1	
MW-12 (500-225519-5)	11/15/22	15:16 Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Chicago.

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
1	Heline Caldejal	11/16/22 1600	EETA			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/17/22 842	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.8°C IR8

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-167750.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-225519-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 12/8/2022			
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #:			
Email:	WO #:			
Project Name: Powerton CCR ABB/SB	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, Y - Trizma, 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)	4500_F_C	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-18 (500-225519-6)	11/16/22	09:45 Central		Water			X	1	
MW-19 (500-225519-7)	11/16/22	08:45 Central		Water			X	1	
Duplicate (500-225519-8)	11/16/22	Central		Water			X	1	
MW-15 (500-225519-9)	11/16/22	10:30 Central		Water			X	1	
MW-17 (500-225519-10)	11/16/22	12:20 Central		Water			X	1	

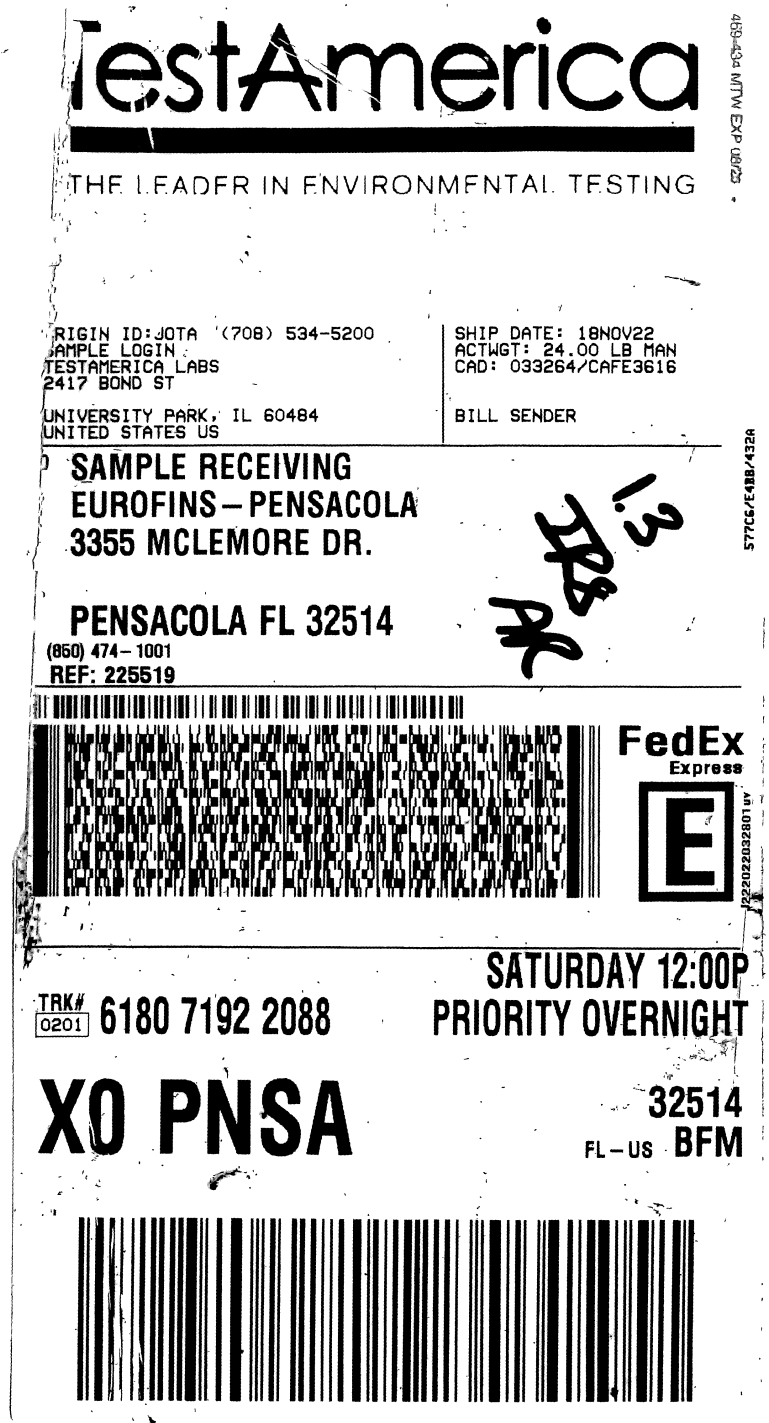
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Chicago.

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
Melinda Courtright	11/18/22 1600	EETA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11.19.22 08:39	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.3°C IR8


TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
ORIGIN ID:JOTA (708) 534-5200
SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST
UNIVERSITY PARK, IL 60484
UNITED STATES US
SHIP DATE: 18NOV22
ACTWGT: 24.00 LB MAN
CAD: 033264/CAFE3616
BILL SENDER
SAMPLE RECEIVING
EUROFINS – PENSACOLA
3355 MCLEMORE DR.
PENSACOLA FL 32514
(850) 474-1001
REF: 225519
1.3
IRB
AK
FedEx
Express
SATURDAY 12:00P
PRIORITY OVERNIGHT
TRK# 0201 6180 7192 2088
XO PNSA
32514
FL-US BFM

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225519-1

Login Number: 225519
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	1.1,0.6,-2.3 SAMPLES NOT FROZEN,1.1
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: 500-225519-1

Login Number: 225519
List Number: 3
Creator: Whitley, Adrian

List Source: Eurofins Pensacola
List Creation: 11/17/22 07:49 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.8°C IR8
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.	N/A	
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: 500-225519-1

Login Number: 225519
List Number: 4
Creator: Roberts, Alexis J

List Source: Eurofins Pensacola
List Creation: 11/19/22 11:04 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	1.3°C IR8
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.	N/A	
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	

Client Sample ID: MW-01

Lab Sample ID: 500-225519-1

Date Collected: 11/15/22 09:56

Matrix: Water

Date Received: 11/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 18:29
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 06:17
Total/NA	Analysis	SM 2540C		1	685755	CLB	EET CHI	11/18/22 05:46
Total/NA	Analysis	SM 4500 Cl- E		2	687566	LP	EET CHI	11/30/22 12:45
Total/NA	Analysis	SM 4500 F C		1	603148	JP	EET PEN	12/01/22 13:15
Total/NA	Analysis	SM 4500 SO4 E		5	687313	LP	EET CHI	11/29/22 09:51

Client Sample ID: MW-08

Lab Sample ID: 500-225519-2

Date Collected: 11/15/22 12:22

Matrix: Water

Date Received: 11/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 18:47
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 06:19
Total/NA	Analysis	SM 2540C		1	685755	CLB	EET CHI	11/18/22 05:48
Total/NA	Analysis	SM 4500 Cl- E		10	687566	LP	EET CHI	11/30/22 12:46
Total/NA	Analysis	SM 4500 F C		1	603174	JP	EET PEN	12/01/22 10:09
Total/NA	Analysis	SM 4500 SO4 E		5	687313	LP	EET CHI	11/29/22 09:51

Client Sample ID: MW-09

Lab Sample ID: 500-225519-3

Date Collected: 11/15/22 13:18

Matrix: Water

Date Received: 11/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 18:50
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 06:21
Total/NA	Analysis	SM 2540C		1	685755	CLB	EET CHI	11/18/22 05:51
Total/NA	Analysis	SM 4500 Cl- E		1	687566	LP	EET CHI	11/30/22 12:44
Total/NA	Analysis	SM 4500 F C		1	603148	JP	EET PEN	12/01/22 13:56
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 09:51

Client Sample ID: MW-11

Lab Sample ID: 500-225519-4

Date Collected: 11/15/22 16:20

Matrix: Water

Date Received: 11/16/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 18:53

Lab Chronicle

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

Job ID: 500-225519-1

Client Sample ID: MW-11
Date Collected: 11/15/22 16:20
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 06:23
Total/NA	Analysis	SM 2540C		1	685755	CLB	EET CHI	11/18/22 05:54
Total/NA	Analysis	SM 4500 Cl- E		10	687566	LP	EET CHI	11/30/22 12:46
Total/NA	Analysis	SM 4500 F C		1	603174	JP	EET PEN	12/01/22 10:09
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 09:52

Client Sample ID: MW-12
Date Collected: 11/15/22 15:16
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 19:04
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 06:51
Total/NA	Analysis	SM 2540C		1	685755	CLB	EET CHI	11/18/22 05:56
Total/NA	Analysis	SM 4500 Cl- E		10	687566	LP	EET CHI	11/30/22 12:47
Total/NA	Analysis	SM 4500 F C		1	603174	JP	EET PEN	12/01/22 10:09
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 09:52

Client Sample ID: MW-18
Date Collected: 11/16/22 09:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 19:07
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 07:00
Total/NA	Analysis	SM 2540C		1	686167	CLB	EET CHI	11/21/22 05:08
Total/NA	Analysis	SM 4500 Cl- E		10	687566	LP	EET CHI	11/30/22 12:47
Total/NA	Analysis	SM 4500 F C		1	603174	JP	EET PEN	12/01/22 10:09
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 09:53

Client Sample ID: MW-19
Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 19:11
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 07:02

Lab Chronicle

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

Job ID: 500-225519-1

Client Sample ID: MW-19

Lab Sample ID: 500-225519-7

Date Collected: 11/16/22 08:45

Matrix: Water

Date Received: 11/17/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	686167	CLB	EET CHI	11/21/22 05:10
Total/NA	Analysis	SM 4500 Cl- E		5	687566	LP	EET CHI	11/30/22 12:47
Total/NA	Analysis	SM 4500 F C		1	603174	JP	EET PEN	12/01/22 10:09
Total/NA	Analysis	SM 4500 SO4 E		5	687313	LP	EET CHI	11/29/22 09:54

Client Sample ID: Duplicate

Lab Sample ID: 500-225519-8

Date Collected: 11/16/22 00:00

Matrix: Water

Date Received: 11/17/22 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 19:14
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 07:05
Total/NA	Analysis	SM 2540C		1	686167	CLB	EET CHI	11/21/22 05:13
Total/NA	Analysis	SM 4500 Cl- E		2	687566	LP	EET CHI	11/30/22 12:48
Total/NA	Analysis	SM 4500 F C		1	603174	JP	EET PEN	12/01/22 10:09
Total/NA	Analysis	SM 4500 SO4 E		5	687313	LP	EET CHI	11/29/22 09:54

Client Sample ID: MW-15

Lab Sample ID: 500-225519-9

Date Collected: 11/16/22 10:30

Matrix: Water

Date Received: 11/18/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 19:18
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 07:07
Total/NA	Analysis	SM 2540C		1	686167	CLB	EET CHI	11/21/22 05:15
Total/NA	Analysis	SM 4500 Cl- E		10	687566	LP	EET CHI	11/30/22 12:48
Total/NA	Analysis	SM 4500 F C		1	603174	JP	EET PEN	12/01/22 10:09
Total/NA	Analysis	SM 4500 SO4 E		20	687313	LP	EET CHI	11/29/22 09:54

Client Sample ID: MW-17

Lab Sample ID: 500-225519-10

Date Collected: 11/16/22 12:20

Matrix: Water

Date Received: 11/18/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			687711	BDE	EET CHI	12/01/22 09:40 - 12/01/22 10:10 [1]
Total Recoverable	Analysis	6020A		1	687931	FXG	EET CHI	12/01/22 19:21
Total/NA	Prep	7470A			686509	MJG	EET CHI	11/22/22 10:10 - 11/22/22 12:10 [1]
Total/NA	Analysis	7470A		1	686793	MJG	EET CHI	11/23/22 07:09
Total/NA	Analysis	SM 2540C		1	686167	CLB	EET CHI	11/21/22 05:18
Total/NA	Analysis	SM 4500 Cl- E		10	687566	LP	EET CHI	11/30/22 12:48

Lab Chronicle

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

Job ID: 500-225519-1

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20
Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	603174	JP	EET PEN	12/01/22 10:09
Total/NA	Analysis	SM 4500 SO4 E		50	687313	LP	EET CHI	11/29/22 10:27

[1] Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Accreditation/Certification Summary

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

Job ID: 500-225519-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/20/2022 8:25:44 AM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-225519-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization

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Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570

Table of Contents

Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

Job ID: 500-225519-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-225519-2

Comments
No additional comments.

Receipt
The samples were received on 11/16/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were -2.3º C, 0.6º C, 1.1º C and 1.1º C.

RAD
Method 903.0: Radium-226 batch 591051
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date
MW-01 (500-225519-1), MW-08 (500-225519-2), MW-09 (500-225519-3), MW-11 (500-225519-4), MW-12 (500-225519-5), MW-18 (500-225519-6), MW-19 (500-225519-7), Duplicate (500-225519-8), MW-15 (500-225519-9), MW-17 (500-225519-10), (LCS 160-591051/2-A), (MB 160-591051/1-A) and (500-225519-G-1-A DU)

Method 904.0: Radium-228 batch 591060
The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-18 (500-225519-6). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 591060
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.
MW-01 (500-225519-1), MW-08 (500-225519-2), MW-09 (500-225519-3), MW-11 (500-225519-4), MW-12 (500-225519-5), MW-18 (500-225519-6), MW-19 (500-225519-7), Duplicate (500-225519-8), MW-15 (500-225519-9), MW-17 (500-225519-10), (LCS 160-591060/2-A), (MB 160-591060/1-A) and (500-225519-G-1-B DU)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

EET 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 ABB/ASB (RAD)

Job ID: 500-225519-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225519-1	MW-01	Water	11/15/22 09:56	11/16/22 10:30
500-225519-2	MW-08	Water	11/15/22 12:22	11/16/22 10:30
500-225519-3	MW-09	Water	11/15/22 13:18	11/16/22 10:30
500-225519-4	MW-11	Water	11/15/22 16:20	11/16/22 10:30
500-225519-5	MW-12	Water	11/15/22 15:16	11/16/22 10:30
500-225519-6	MW-18	Water	11/16/22 09:45	11/17/22 10:10
500-225519-7	MW-19	Water	11/16/22 08:45	11/17/22 10:10
500-225519-8	Duplicate	Water	11/16/22 00:00	11/17/22 10:10
500-225519-9	MW-15	Water	11/16/22 10:30	11/18/22 10:00
500-225519-10	MW-17	Water	11/16/22 12:20	11/18/22 10:00

Client Sample ID: MW-01

Date Collected: 11/15/22 09:56
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0289	U	0.0772	0.0772	1.00	0.142	pCi/L	11/23/22 08:18	12/19/22 12:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:31*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.128	U	0.255	0.255	1.00	0.446	pCi/L	11/23/22 08:43	12/14/22 11:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:37*	*1*
Y Carrier	*83.0*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:37*	*1*

Method: TAL-STL 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	0.157	U	0.266	0.266	5.00	0.446	pCi/L		12/19/22 17:29	1

Client Sample ID: MW-08

Date Collected: 11/15/22 12:22
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.222**		0.111	0.113	1.00	0.140	pCi/L	11/23/22 08:18	12/19/22 12:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.8*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:31*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.229	U	0.252	0.253	1.00	0.410	pCi/L	11/23/22 08:43	12/14/22 11:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.8*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:38*	*1*
Y Carrier	*89.0*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:38*	*1*

Method: TAL-STL 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	**0.451**		0.275	0.277	5.00	0.410	pCi/L		12/19/22 17:29	1

Client Sample ID: MW-09

Date Collected: 11/15/22 13:18
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00275	U	0.0608	0.0608	1.00	0.126	pCi/L	11/23/22 08:18	12/19/22 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.369	U	0.295	0.297	1.00	0.448	pCi/L	11/23/22 08:43	12/14/22 11:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.3*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:38*	*1*
Y Carrier	*81.9*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:38*	*1*

Method: TAL-STL 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	0.372	U	0.301	0.303	5.00	0.448	pCi/L		12/19/22 17:29	1

Client Sample ID: MW-11

Date Collected: 11/15/22 16:20
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-4

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.157		0.0988	0.0998	1.00	0.133	pCi/L	11/23/22 08:18	12/19/22 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.629		0.348	0.353	1.00	0.490	pCi/L	11/23/22 08:43	12/14/22 11:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.3*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:38*	*1*
Y Carrier	*84.1*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:38*	*1*

Method: TAL-STL 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	0.785		0.362	0.367	5.00	0.490	pCi/L		12/19/22 17:29	1

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

Client Sample ID: MW-12

Date Collected: 11/15/22 15:16
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-5

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.208		0.119	0.121	1.00	0.160	pCi/L	11/23/22 08:18	12/19/22 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.4*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.200	U	0.362	0.363	1.00	0.622	pCi/L	11/23/22 08:43	12/14/22 11:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.4*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:39*	*1*
Y Carrier	*82.2*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:39*	*1*

Method: TAL-STL 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	0.408	U	0.381	0.383	5.00	0.622	pCi/L		12/19/22 17:29	1

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

Client Sample ID: MW-18

Date Collected: 11/16/22 09:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.446	U	0.581	0.582	1.00	0.969	pCi/L	11/23/22 08:18	12/19/22 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*49.5*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**4.48**	**G**	2.38	2.42	1.00	3.30	pCi/L	11/23/22 08:43	12/14/22 11:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*49.5*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:39*	*1*
Y Carrier	*89.3*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:39*	*1*

Method: TAL-STL Ra226_Ra228 - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	**4.93**		2.45	2.49	5.00	3.30	pCi/L		12/19/22 17:29	1

Client Sample ID: MW-19

Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.119	U	0.0949	0.0955	1.00	0.139	pCi/L	11/23/22 08:18	12/19/22 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.627**		0.389	0.393	1.00	0.575	pCi/L	11/23/22 08:43	12/14/22 11:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:40*	*1*
Y Carrier	*85.2*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:40*	*1*

Method: TAL-STL 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	**0.746**		0.400	0.404	5.00	0.575	pCi/L		12/19/22 17:29	1

Client Sample ID: Duplicate

Date Collected: 11/16/22 00:00
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-8

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0853	U	0.0984	0.0987	1.00	0.161	pCi/L	11/23/22 08:18	12/19/22 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.501	U	0.354	0.357	1.00	0.535	pCi/L	11/23/22 08:43	12/14/22 11:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.8*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:40*	*1*
Y Carrier	*83.4*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:40*	*1*

Method: TAL-STL 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	**0.586**		0.367	0.370	5.00	0.535	pCi/L		12/19/22 17:29	1

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

Client Sample ID: MW-15

Date Collected: 11/16/22 10:30
Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-9

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0862	U	0.0906	0.0909	1.00	0.145	pCi/L	11/23/22 08:18	12/19/22 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.404	U	0.310	0.312	1.00	0.472	pCi/L	11/23/22 08:43	12/14/22 11:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:40*	*1*
Y Carrier	*82.2*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:40*	*1*

Method: TAL-STL 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	**0.490**		0.323	0.325	5.00	0.472	pCi/L		12/19/22 17:29	1

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20
Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-10

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0665	U	0.0829	0.0831	1.00	0.137	pCi/L	11/23/22 08:18	12/19/22 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.445	U	0.302	0.305	1.00	0.448	pCi/L	11/23/22 08:43	12/14/22 11:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:41*	*1*
Y Carrier	*90.8*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:41*	*1*

Method: TAL-STL 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	**0.512**		0.313	0.316	5.00	0.448	pCi/L		12/19/22 17:29	1

Definitions/Glossary

Client: KPRG and Associates, Inc. Job ID: 500-225519-2
Project/Site: Powerton CCR ABB/ASB (RAD)

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

Client: KPRG and Associates, Inc.
Job ID: 500-225519-2
Project/Site: Powerton CCR ABB/ASB (RAD)

Rad

Prep Batch: 591051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total/NA	Water	PrecSep-21	
500-225519-2	MW-08	Total/NA	Water	PrecSep-21	
500-225519-3	MW-09	Total/NA	Water	PrecSep-21	
500-225519-4	MW-11	Total/NA	Water	PrecSep-21	
500-225519-5	MW-12	Total/NA	Water	PrecSep-21	
500-225519-6	MW-18	Total/NA	Water	PrecSep-21	
500-225519-7	MW-19	Total/NA	Water	PrecSep-21	
500-225519-8	Duplicate	Total/NA	Water	PrecSep-21	
500-225519-9	MW-15	Total/NA	Water	PrecSep-21	
500-225519-10	MW-17	Total/NA	Water	PrecSep-21	
MB 160-591051/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-591051/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-225519-1 DU	MW-01	Total/NA	Water	PrecSep-21	

Prep Batch: 591060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225519-1	MW-01	Total/NA	Water	PrecSep_0	
500-225519-2	MW-08	Total/NA	Water	PrecSep_0	
500-225519-3	MW-09	Total/NA	Water	PrecSep_0	
500-225519-4	MW-11	Total/NA	Water	PrecSep_0	
500-225519-5	MW-12	Total/NA	Water	PrecSep_0	
500-225519-6	MW-18	Total/NA	Water	PrecSep_0	
500-225519-7	MW-19	Total/NA	Water	PrecSep_0	
500-225519-8	Duplicate	Total/NA	Water	PrecSep_0	
500-225519-9	MW-15	Total/NA	Water	PrecSep_0	
500-225519-10	MW-17	Total/NA	Water	PrecSep_0	
MB 160-591060/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-591060/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-225519-1 DU	MW-01	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-591051/1-A
Matrix: Water
Analysis Batch: 594203

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591051

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03858	U	0.0668	0.0669	1.00	0.118	pCi/L	11/23/22 08:18	12/19/22 12:29	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.7*		*40 - 110*	*11/23/22 08:18*	*12/19/22 12:29*	*1*

Lab Sample ID: LCS 160-591051/2-A
Matrix: Water
Analysis Batch: 594203

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591051

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.330		1.03	1.00	0.130	pCi/L	82	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.7*		*40 - 110*

Lab Sample ID: 500-225519-1 DU
Matrix: Water
Analysis Batch: 594202

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 591051

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0289	U		0.08766	U	0.0831	1.00	0.128	pCi/L			0.37	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*95.9*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-591060/1-A
Matrix: Water
Analysis Batch: 593574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591060

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2855	U	0.293	0.294	1.00	0.473	pCi/L	11/23/22 08:43	12/14/22 11:35	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.7*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:35*	*1*
Y Carrier	*87.1*		*40 - 110*	*11/23/22 08:43*	*12/14/22 11:35*	*1*

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

Lab Sample ID: LCS 160-591060/2-A
Matrix: Water
Analysis Batch: 593574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591060

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.36	10.27		1.37	1.00	0.630	pCi/L	123	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.7*		*40 - 110*
Y Carrier	*83.7*		*40 - 110*

Lab Sample ID: 500-225519-1 DU
Matrix: Water
Analysis Batch: 593573

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 591060

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.128	U		0.6250		0.335	1.00	0.458	pCi/L			0.84	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*95.9*		*40 - 110*
Y Carrier	*87.1*		*40 - 110*

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

Chain of Custody Record

eurofins | Environment Testing

Client Information

Client Contact: Mitchel Dolan	Sampler: Kaelyn Sperle	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-106663-43259 1
	Phone: 262-278-1621	E-Mail: Diana Mockler@et.eurofinsus com	State of Origin: IL	Page: Page 1 of 1
Company: KPRG and Associates, Inc.		PWSID:		Job #: 500-225519
Address: 14665 West Lisbon Road, Suite 1A	Due Date Requested: Standard			
City: Brookfield	TAT Requested (days): Standard			
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 Event Desc. Quarterly Powerton CCR Sampling	Project #: 50011612			
Site: Illinois	SSOW#:			

500-225519 COC

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, Y - Trizma, Z - other (specify)
Other:

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, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E	SM4500_SO4_E - Sulfate	Total Number of containers	Special Instructions/Note
				Preservation Code:		X	X	D	D	N	N	X	
1	MW-01	11/15/22	0956	G	Water	N	N	X	X	X	X		
2	MW-08	11/15/22	1222	G	Water	N	N	X	X	X	X		
3	MW-09	11/15/22	1318	G	Water	N	N	X	X	X	X		
4	MW-11	11/15/22	1620	G	Water	N	N	X	X	X	X		
5	MW-12	11/15/22	1516	G	Water	N	N	X	X	X	X		
	~~MW-15~~				Water								
	~~MW-17~~				Water								
	~~MW-18~~				Water								
	~~MW-19~~				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
Kaelyn Sperle	11/15/22 / 1830	KPRG	FedEx	11/15/22 / 1830	FedEx
			[signature]	11/16/22 1030	EETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks: 1.0 → 1.1, 1.1 → 0.6

Ver: 06/08/2021

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

Chain of Custody Record

eurofins

Client Information	Sampler: Kaelyn Sperle	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-106663-43259 1
Client Contact: Mitchel Dolan	Phone: 262-278-1621	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates, Inc	PWSID:			Job #: 500-225519

Address: 14665 West Lisbon Road Suite 1A	Due Date Requested: Standard	Analysis Requested	Preservation Codes
City: Brookfield	TAT Requested (days): Standard		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; Y Trizma; Z - other (specify); Other:
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 Event Desc Quarterly Powerton CCR Sampling	Project #: 50011612		
Site: Illinois	SSOW#:		

500-225519 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, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E	SM4500_SO4_E - Sulfate	Total Number of containers	Special Instructions/Note
			Preservation Code		X	X	D	D	N	N	X	
~~MW-01~~				Water								
~~MW-08~~				Water								
~~MW-09~~				Water								
~~MW-11~~				Water								
~~MW-12~~				Water								
~~MW-15~~				Water								
~~MW-17~~				Water								
6 MW-18	11/16/22	0945	G	Water	N	N	X	X	X	X		
7 MW-19	11/16/22	0845	G	Water	N	N	X	X	X	X		
8 Duplicate	11/16/22	—	G	Water	N	N	X	X	X	X		
				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:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Kaelyn Sperle	11/16/22/1715	KPRG	FedEx	11/16/22/1715	FedEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 11/17/22 1018	Company EET A
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: -18 → -23

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

Chain of Custody Record

eurofins Environment Testing

Client Information	Sampler: Kaelyn Sperle	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500-106663-43259 1
Client Contact: Mitchel Dolan	Phone: 262-278-1621	E-Mail: Diana Mockler@et.eurofinsus com	State of Origin: IL	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWSID:			Job #: 500-225519
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested: Standard	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; Y Trizma; Z other (specify); Other:
City: Brookfield	TAT Requested (days): Standard			
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 Event Desc Quarterly Powerton CCR Samplling	Project #: 50011612			
Site: Illinois	SSOW#:			

500-225519 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, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E	SM4500_SO4_E - Sulfate	Total Number of containers	Special Instructions/Note
			Preservation Code:		X	X	D	D	N	N	X	
[redacted]				Water								
[redacted]				Water								
[redacted]				Water								
[redacted]				Water								
[redacted]				Water								
9 MW-15	11/16/22	1030	G	Water	N	N	X	X	X	X		
10 [redacted] MW-17	11/16/22	1220	G	Water	N	N	X	X	X	X		
[redacted]				Water								
[redacted]				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)

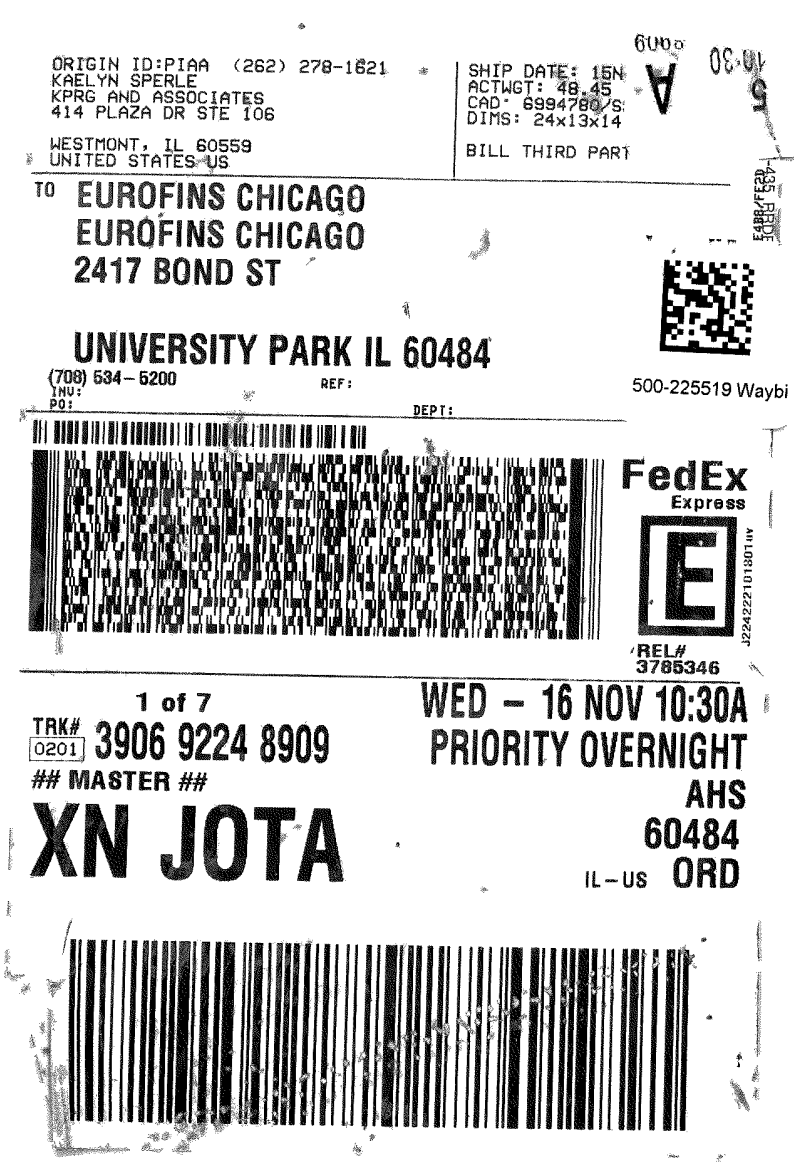
Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
Kaelyn Sperle	11/17/22/1600	KPRG	FedEX	11/17/22/1600	KPRG
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
			[signature]	11/18/22 1000	EPSA
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
		1.6 -> 1.7

12/20/2022


ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 15N
ACTWGT: 48.45
CAD: 6994780/S
DIMS: 24x13x14

BILL THIRD PART

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

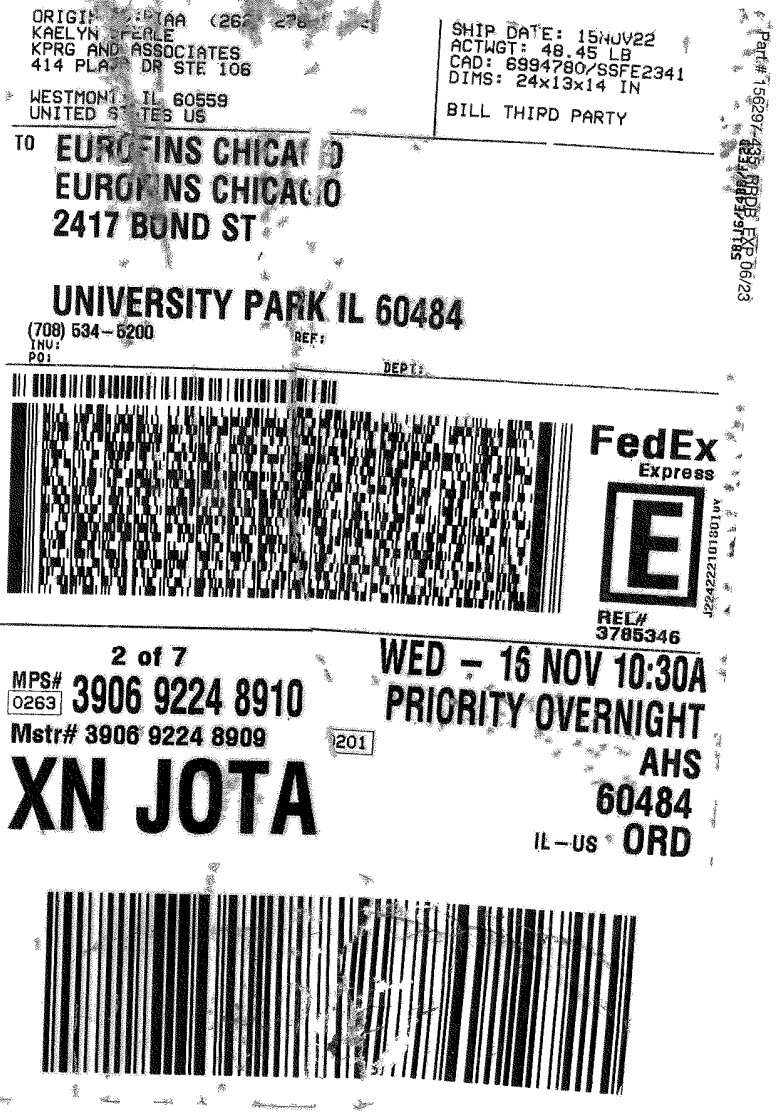
500-225519 Waybi

FedEx Express

REL#
3785346

1 of 7
TRK# 0201 3906 9224 8909
MASTER
XN JOTA

WED - 16 NOV 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD


ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 15NOV22
ACTWGT: 48.45 LB
CAD: 6994780/SSFE2341
DIMS: 24x13x14 IN

BILL THIRD PARTY

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:

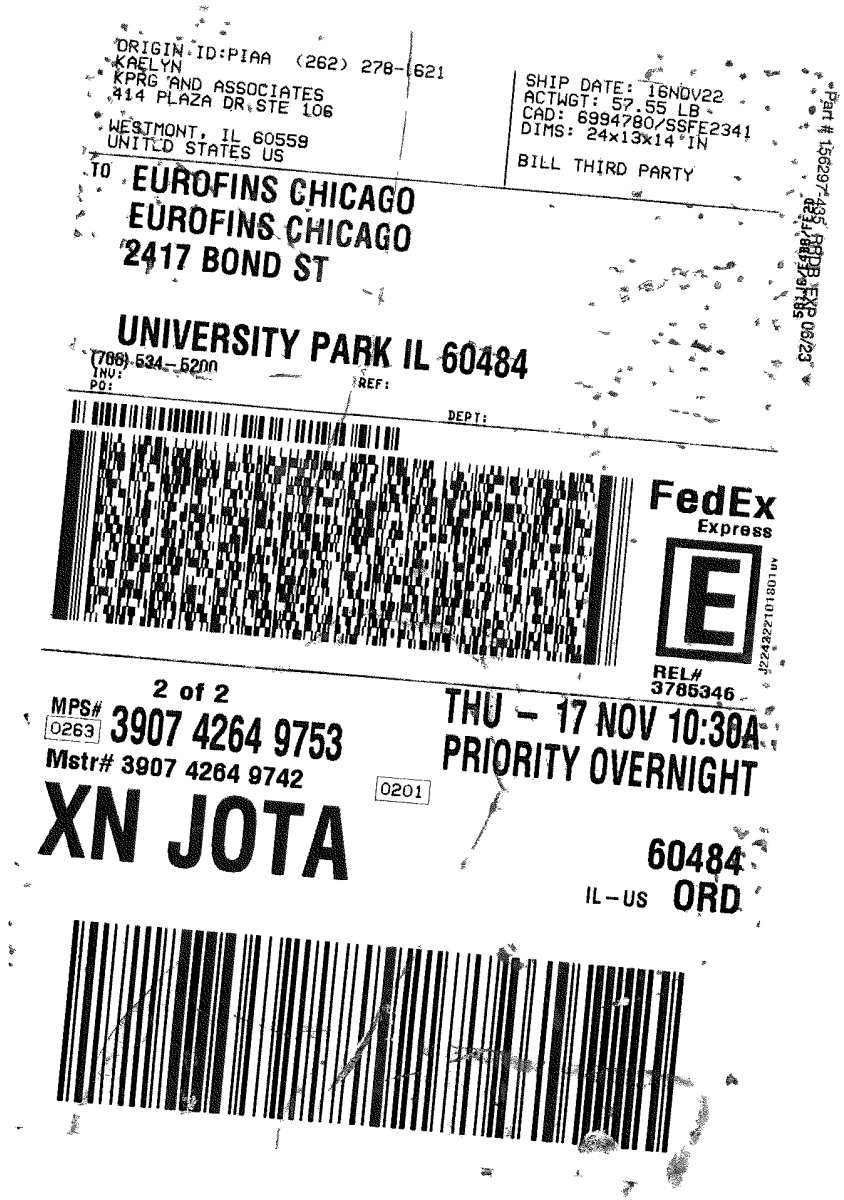
FedEx Express

REL#
3785346

2 of 7
MPS# 0263 3906 9224 8910
Mstr# 3906 9224 8909
201
XN JOTA

WED - 16 NOV 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD

500-225519 Waybi



ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17NOV22
ACTWGT: 38.00 LB
CAD: 6994779/SSFE2341
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 156297-435 RRDB EXP 06/23

TO **SAMPLE RECEIVING**
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO: REF: DEPT:

500-225519 Waybi

FedEx
Express
E
J224222101801uv

TRK# 0201 **3907 9045 7427**

FRI - 18 NOV 10:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US **ORD**

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-167594.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-225519-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/19/2022			
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, Y - Trizma, 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-01 (500-225519-1)	11/15/22	09:56 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-08 (500-225519-2)	11/15/22	12:22 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-09 (500-225519-3)	11/15/22	13:18 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-11 (500-225519-4)	11/15/22	16:20 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-12 (500-225519-5)	11/15/22	15:16 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed	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) 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
Melissa Carbajal	11/16/22 1600	EETA	FED EX		
Relinquished by: FED EX	Date/Time:	Company	Received by: Sierra Worthington	Date/Time: NOV 17 2022 0910	Company ETMSL
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:

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

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-167754.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-225519-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/9/2022			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045	PO #:			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	WO #:			
Email:				
Project Name: Powerton CCR ABB/ASB (RAD)	Project #: 50011612			
Site: MWG - Powerton	SSOW#:			

Analysis Requested

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-18 (500-225519-6)	11/16/22	09:45 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-19 (500-225519-7)	11/16/22	08:45 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
Duplicate (500-225519-8)	11/16/22	Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-15 (500-225519-9)	11/16/22	10:30 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-17 (500-225519-10)	11/16/22	12:20 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no

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, Y - Trizma, Z - other (specify), Other:

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

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

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Melissa Caldwell FED EX	11/15/22 1600	EFTA	Received by: FED EX		
Relinquished by:			Received by:		
Relinquished by:			Received by:		

Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225519-2

Login Number: 225519
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	1.1,0.6,-2.3 SAMPLES NOT FROZEN,1.1
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: 500-225519-2

Login Number: 225519
List Number: 2
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 11/17/22 10:33 AM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225519-2

Login Number: 225519
List Number: 5
Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis
List Creation: 11/21/22 01:47 PM

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

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

Client Sample ID: MW-01
Date Collected: 11/15/22 09:56
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:31
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593573	FLC	EET SL	12/14/22 11:37
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Client Sample ID: MW-08
Date Collected: 11/15/22 12:22
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:31
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:38
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Client Sample ID: MW-09
Date Collected: 11/15/22 13:18
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:32
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:38
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Client Sample ID: MW-11
Date Collected: 11/15/22 16:20
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:32
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:38
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

Client Sample ID: MW-12
Date Collected: 11/15/22 15:16
Date Received: 11/16/22 10:30

Lab Sample ID: 500-225519-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:32
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:39
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Client Sample ID: MW-18
Date Collected: 11/16/22 09:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:32
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:39
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Client Sample ID: MW-19
Date Collected: 11/16/22 08:45
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:32
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:40
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Client Sample ID: Duplicate
Date Collected: 11/16/22 00:00
Date Received: 11/17/22 10:10

Lab Sample ID: 500-225519-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:32
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:40
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

Client Sample ID: MW-15

Date Collected: 11/16/22 10:30
Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:32
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:40
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Client Sample ID: MW-17

Date Collected: 11/16/22 12:20
Date Received: 11/18/22 10:00

Lab Sample ID: 500-225519-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591051	DJP	EET SL	11/23/22 08:18
Total/NA	Analysis	903.0		1	594202	FLC	EET SL	12/19/22 12:32
Total/NA	Prep	PrecSep_0			591060	DJP	EET SL	11/23/22 08:43
Total/NA	Analysis	904.0		1	593572	FLC	EET SL	12/14/22 11:41
Total/NA	Analysis	Ra226_Ra228		1	594216	SCB	EET SL	12/19/22 17:29

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc. Job ID: 500-225519-2
Project/Site: Powerton CCR ABB/ASB (RAD)

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Project/Site: Powerton CCR ABB/ASB (RAD)

Job ID: 500-225519-2

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)
500-225519-1	MW-01	93.0
500-225519-1 DU	MW-01	95.9
500-225519-2	MW-08	97.8
500-225519-3	MW-09	90.3
500-225519-4	MW-11	91.3
500-225519-5	MW-12	87.4
500-225519-6	MW-18	49.5
500-225519-7	MW-19	88.1
500-225519-8	Duplicate	90.8
500-225519-9	MW-15	93.0
500-225519-10	MW-17	93.0
LCS 160-591051/2-A	Lab Control Sample	92.7
MB 160-591051/1-A	Method Blank	94.7

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)
500-225519-1	MW-01	93.0	83.0
500-225519-1 DU	MW-01	95.9	87.1
500-225519-2	MW-08	97.8	89.0
500-225519-3	MW-09	90.3	81.9
500-225519-4	MW-11	91.3	84.1
500-225519-5	MW-12	87.4	82.2
500-225519-6	MW-18	49.5	89.3
500-225519-7	MW-19	88.1	85.2
500-225519-8	Duplicate	90.8	83.4
500-225519-9	MW-15	93.0	82.2
500-225519-10	MW-17	93.0	90.8
LCS 160-591060/2-A	Lab Control Sample	92.7	83.7
MB 160-591060/1-A	Method Blank	94.7	87.1

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

PROJECT NAME	**NRG – POWERTON STATION #12313.1**		DATE	11/15/22
Sample Name	MW-01	Start Time	0941	
Condition of Well	good			
Water Level	29.58	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	Clear	
Volume Removed	4 qts	WL at Sample Time	29.59	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	Clear	
Sample Analysis	CCA, CCR ATB/ASB, CCR FAB	Sample Time	0956	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0946	29.58	7.35	13.9	.827	6.85	-11.7	11.76
0949	–	7.23	14.1	.836	5.13	2.6	9.04
0952	–	7.16	14.2	.833	4.40	6.7	4.85
0955	29.59	7.15	14.1	.833	4.19	7.8	3.90

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/15/22
Sample Name	MW-08	Start Time	1209	
Condition of Well	good			
Water Level	26.23	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	clear	
Volume Removed	4 gals	WL at Sample Time	26.23	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA, CCR-ABB/ASB	Sample Time	1222	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1212	26.23	7.39	13.8	1.273	6.66	56.9	70.72
1215	–	7.48	14.0	1.253	3.33	15.6	90.81
1218	–	7.63	14.1	1.247	1.73	-143.1	22.22
1221	26.23	7.67	13.9	1.250	1.37	-182.1	12.65

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/15/22
Sample Name	MW-09	Start Time	1305	
Condition of Well	good			
Water Level	28.46	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	clear	
Volume Removed	4.5 gals	W L at Sample Time	28.46	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA, CCR ABBASB	Sample Time	1318	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1308	28.46	7.39	15.1	.760	7.33	15.4	2.09
1311	–	7.40	15.2	.755	2.88	13.1	5.81
1314	–	7.40	15.5	.754	1.70	15.5	1.92
1317	28.46	7.39	15.6	.755	1.21	9.6	1.82

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/15/22
Sample Name	MW-11	Start Time	1608	
Condition of Well	good			
Water Level	33.80	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	clear	
Volume Removed	4 qts	W L at Sample Time	33.80	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA, CCR ABB/ASB	Sample Time	1620	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1610	33.80	7.67	15.6	1.126	8.62	27.1	22.14
1613	-	7.22	15.3	1.269	3.66	32.3	122.13
1616	-	7.20	15.2	1.205	2.25	1.4	80.69
1619	33.80	7.21	15.3	1.117	1.66	-34.1	36.10

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/15/22
Sample Name	MW-12	Start Time	1504	
Condition of Well	good			
Water Level	24.15	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	cloudy, orange	
Volume Removed	4.5 gals	WL at Sample Time	24.15	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear w/ orange to yellow tint	
Sample Analysis	CCA, CCR ABB/ASB	Sample Time	1516	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1506	24.15	7.54	14.6	1.197	6.75	58.0	1216.85
1509	—	7.59	14.7	1.141	3.13	44.0	1527.05
1512	—	7.63	14.7	1.136	1.85	-3.4	1311.69
1515	24.15	7.66	14.8	1.136	1.42	-70.1	335.90

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/16/22
Sample Name	MW-15	Start Time	1018	
Condition of Well	good			
Water Level	26.21	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	cloudy, orange	
Volume Removed	4 qts	W L at Sample Time		
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCA*, CCR ABB/ASB & McB	Sample Time	1030	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1020	26.21	7.64	13.1	2.265	7.92	28.8	13.25
1023	—	7.36	14.6	1.904	3.92	32.2	547.66
1026	—	7.30	15.0	1.906	2.12	13.3	262.48
1029		7.26	15.0	1.905	1.54	-20.0	55.82

SAMPLING NOTES: *CCA sampling time: 11/17/22/0903
paused sampling at 1153 to allow well to recharge; cont'd ABB/ASB sampling at 1433. paused at 1514, to leave CCA for tomorrow. 11/17/22, START AT 0903, Paused at 0950. CONT'D at 1228. PAUSED AT 1300. CONTINUED 1400. PAUSED 1424

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/16/22
Sample Name	MW-17	Start Time	1203	
Condition of Well	good			
Water Level	27.73	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	orange, cloudy	
Volume Removed	0.5 gts	W L at Sample Time		
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	orange tint, sl. cloudy	
Sample Analysis	cce MCBE ABB/ASB	Sample Time	1220	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1210	27.73	8.04	11.3	1.676	7.50	45.7	312.56
1213	—	7.76	10.8	1.660	5.77	48.8	241.05
1216	—	7.61	10.5	1.666	4.86	50.3	167.77
1219		7.56	10.0	1.668	4.53	50.9	116.69

SAMPLING NOTES:

paused at 1330 to allow well to recharge; resumed at 1524; paused for day at 1612 to resume 11/17/22. STARTed at 0730 on 11/17/22 to finish ABB/ASB sampling. PAUSE at 0856 to allow well to recharge. RESTART AT 1200. FINISH SAMPLING at 1220

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/16/22
Sample Name	MW-18	Start Time	0934	
Condition of Well	good			
Water Level	32.80	Total Depth	–	
Well Diameter	PVC – 2 inch	Volume in Well	–	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	gray tint, sl. cloudy	
Volume Removed	3.5 gals	W L at Sample Time	36.25	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	gray tint, sl. cloudy	
Sample Analysis	CCR ABB/ASB	Sample Time	0945	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0935	32.80	7.95	14.4	1.522	7.55	67.4	7.49
0938	–	7.78	14.9	1.506	4.17	66.8	25.35
0941	–	7.87	14.3	1.509	2.13	54.7	13.44
0944	36.25	7.90	14.9	1.506	1.55	33.8	28.47

SAMPLING NOTES:

Sampler Name and Company: KPRG and Associates KLS

PROJECT NAME	NRG – POWERTON STATION #12313.1		DATE	11/16/22
Sample Name	MW-19	Start Time	0832	
Condition of Well	good			
Water Level	26.82	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow Bladder Pump	Purge Characteristics	Clear	
Volume Removed	4 qts	W L at Sample Time	26.82	
Method of Sample	Low-Flow Bladder Pump	Sample Characteristics	clear	
Sample Analysis	CCR ABB/ASB	Sample Time	0845	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm).	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0835	26.82	7.44	12.8	.757	8.92	81.7	2.12
0838	—	7.31	12.4	.808	5.08	88.4	3.43
0841	—	7.28	12.4	.813	2.43	88.7	2.07
0844	26.82	7.27	12.2	.812	1.87	87.8	2.02

SAMPLING NOTES:

ABB/ASB duplicate

Sampler Name and Company: KPRG and Associates KLS