

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) another round groundwater monitoring for establishing background was completed October 8, 2021 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables as they will be calculated and proposed as part of the Operating Permit submittals due by March 31, 2022. Upon Illinois Environmental Protection Agency approval of the Operating Permit, the approved comparison values will be included for subsequent data comparisons/evaluations.

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium
MW-13 (S) up-gradient	4/8/2021	2.6	380	130	0.4	8.08	1500	2700	< 0.003	0.021	0.21	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.025	0.77	< 0.0025	< 0.002
	5/13/2021	2.6	340	130	0.39	7.86	1400	2500	< 0.003	0.023	0.23	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.022	0.84	< 0.0025	< 0.002
	6/3/2021	3.2	370	150	0.41	7.63	1500	2600	< 0.003	0.025	0.22	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.026	0.79	< 0.0025	< 0.002
	8/23/2021	3	340	110	0.36	7.72	980	2000	< 0.003	0.021	0.19	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.022	0.9	< 0.0025	< 0.002
	10/1/2021	2.8	320	120	0.36	7.78	1300	2500	< 0.003	0.025	0.25	< 0.001	< 0.0005	< 0.005	< 0.001	0.00065	< *1+ 0.01	< 0.0002	0.023	< 0.577	< 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	< 0.001	< 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	< 0.0050	< 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	< 0.003	0.0044	0.053	< 0.001	< 0.0005	< 0.0050	< 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	0.10	NA	< 0.0005	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
	7/20/2021	1.5	190	180	0.49	6.80	440	1500	< 0.003	0.0027	0.057	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.028	< 0.0002	0.02	< 0.398	< 0.0025	< 0.002
	8/23/2021	1.6	200	180	0.52	6.76	440	1500	< 0.003	0.0019	0.052	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.024	< 0.0002	0.024	< 0.794	0.012	< 0.002
	10/1/2021	1.2	180	180	0.53	6.97	430	1400	< 0.003	0.0087	0.065	< 0.001	< 0.0005	< 0.0050	< 0.001	< 0.0005	0.028	< 0.0002	0.018	< 0.511	0.009	< 0.002
MW-17 (CL) up-gradient	11/19/2015	1.6	210	H 230	H 0.43	7.11	H 850	H 1800	< 0.003	0.0028	0.14	^ < 0.001	< 0.0005	< 0.005	0.0012	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	< 0.003	0.088	0.10	< 0.001	0.0015	< 0.005	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
	4/8/2021	1.1	140	160	0.71	7.75	480	1200	< 0.003	0.0061	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.019	< 0.0002	0.057	< 0.485	< 0.0025	< 0.002
	5/12/2021	1.1	130	160	0.75	7.52	470	1100	< 0.003	0.0042	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.051	< 0.398	< 0.0025	< 0.002
	6/3/2021	0.4	150	96	0.74	7.27	500	1300	< 0.003	0.011	0.029	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.017	< 0.0002	0.055	< 0.463	< 0.0025	< 0.002
	6/28/2021	B 1.1	150	150	0.69	7.34	500	1200	^ < 0.003	0.018	0.034	< 0.001	< 0.0005	< 0.005	< 0							

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

Well	Date	Turbidity (NTU)
MW-13	2/24/2021	8.90
	4/8/2021	6.50
	5/13/2021	2.17
	6/3/2021	2.81
	6/29/2021	4.00
	8/23/2021	3.99
	10/1/2021	4.82
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	
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	
MW-14	2/24/2021	13.90
	4/8/2021	5.39
	5/12/2021	1.22
	6/3/2021	2.63
	6/28/2021	3.74
	7/20/2021	4.34
	8/23/2021	4.26
10/1/2021	10.27	
MW-20	3/12/2021	343.30
	4/8/2021	14.45
	5/12/2021	3.89
	6/3/2021	6.01
	6/28/2021	8.28
	7/20/2021	9.16
	8/23/2021	27.31
10/1/2021	8.27	
MW-21	3/12/2021	49.20
	4/8/2021	5.88
	5/12/2021	26.09
	6/3/2021	17.61
	6/28/2021	6.33
	7/20/2021	44.93
	8/23/2021	19.43
10/8/2021	94.82	

ANALYTICAL REPORT

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

Laboratory Job ID: 500-206165-1
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:
10/29/2021 8:13:51 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	4
Sample Summary	5
Client Sample Results	6
Definitions	11
QC Association	12
QC Sample Results	15
Chain of Custody	20
Receipt Checklists	23
Chronicle	24
Certification Summary	27



Case Narrative

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

Job ID: 500-206165-1

Job ID: 500-206165-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-206165-1

Comments

No additional comments.

Receipt

The samples were received on 10/2/2021 11:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.5° C, 0.7° C and 0.9° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No date/time on COC for sample #7 "MW-21". Logged per container labels.

Metals

Method 6010C: The initial calibration verification (ICV) was outside of the method control limits for Lithium associated with the samples MW-15 (500-206165-1), MW-14 (500-206165-2), MW-17 (500-206165-3), MW-20 (500-206165-4), Duplicate (500-206165-5), MW-13 (500-206165-6) and MW-21 (500-206165-7). The continuing calibration verifications (CCV), laboratory control sample (LCS), and other QC was within the control limits, therefore the data has been reported.

MW-15 (500-206165-1), MW-14 (500-206165-2), MW-17 (500-206165-3), MW-20 (500-206165-4), Duplicate (500-206165-5), MW-13 (500-206165-6) and MW-21 (500-206165-7)

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

General Chemistry

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

Method Summary

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

Job ID: 500-206165-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-206165-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-206165-1	MW-15	Water	10/01/21 09:58	10/02/21 11:10
500-206165-2	MW-14	Water	10/01/21 11:46	10/02/21 11:10
500-206165-3	MW-17	Water	10/01/21 10:45	10/02/21 11:10
500-206165-4	MW-20	Water	10/01/21 12:50	10/02/21 11:10
500-206165-5	Duplicate	Water	10/01/21 00:00	10/02/21 11:10
500-206165-6	MW-13	Water	10/01/21 11:20	10/02/21 11:10
500-206165-7	MW-21	Water	10/08/21 11:30	10/08/21 16:10

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

Client Sample Results

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

Job ID: 500-206165-1

Client Sample ID: MW-15

Lab Sample ID: 500-206165-1

Date Collected: 10/01/21 09:58

Matrix: Water

Date Received: 10/02/21 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.028	^1+	0.010		mg/L		10/20/21 09:39	10/21/21 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/20/21 09:39	10/20/21 19:19	1
Arsenic	0.0087		0.0010		mg/L		10/20/21 09:39	10/20/21 19:19	1
Barium	0.065		0.0025		mg/L		10/20/21 09:39	10/20/21 19:19	1
Beryllium	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:19	1
Boron	1.2		0.050		mg/L		10/20/21 09:39	10/20/21 19:19	1
Cadmium	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:19	1
Calcium	180		0.20		mg/L		10/20/21 09:39	10/20/21 19:19	1
Chromium	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 19:19	1
Cobalt	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:19	1
Lead	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:19	1
Molybdenum	0.018		0.0050		mg/L		10/20/21 09:39	10/20/21 19:19	1
Selenium	0.0090		0.0025		mg/L		10/20/21 09:39	10/20/21 19:19	1
Thallium	<0.0020		0.0020		mg/L		10/20/21 09:39	10/20/21 19:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/21/21 09:30	10/22/21 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			10/06/21 13:54	1
Chloride	180		10		mg/L			10/19/21 16:49	5
Fluoride	0.53		0.10		mg/L			10/12/21 09:59	1
Sulfate	430		50		mg/L			10/05/21 18:17	10

Client Sample ID: MW-14

Lab Sample ID: 500-206165-2

Date Collected: 10/01/21 11:46

Matrix: Water

Date Received: 10/02/21 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.034	^1+	0.010		mg/L		10/20/21 09:39	10/21/21 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/20/21 09:39	10/20/21 19:22	1
Arsenic	0.0045		0.0010		mg/L		10/20/21 09:39	10/20/21 19:22	1
Barium	0.039		0.0025		mg/L		10/20/21 09:39	10/20/21 19:22	1
Beryllium	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:22	1
Boron	1.9		0.050		mg/L		10/20/21 09:39	10/20/21 19:22	1
Cadmium	0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:22	1
Calcium	200		0.20		mg/L		10/20/21 09:39	10/20/21 19:22	1
Chromium	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 19:22	1
Cobalt	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:22	1
Lead	0.00065		0.00050		mg/L		10/20/21 09:39	10/20/21 19:22	1
Molybdenum	0.037		0.0050		mg/L		10/20/21 09:39	10/20/21 19:22	1
Selenium	<0.0025		0.0025		mg/L		10/20/21 09:39	10/20/21 19:22	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-206165-1

Client Sample ID: MW-14
Date Collected: 10/01/21 11:46
Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0020		0.0020		mg/L		10/20/21 09:39	10/20/21 19:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/21/21 09:30	10/22/21 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			10/06/21 13:57	1
Chloride	100		6.0		mg/L			10/19/21 16:50	3
Fluoride	0.95		0.10		mg/L			10/12/21 10:02	1
Sulfate	640		100		mg/L			10/05/21 18:19	20

Client Sample ID: MW-17
Date Collected: 10/01/21 10:45
Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.022	^1+	0.010		mg/L		10/20/21 09:39	10/21/21 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/20/21 09:39	10/20/21 19:26	1
Arsenic	0.0052		0.0010		mg/L		10/20/21 09:39	10/20/21 19:26	1
Barium	0.028		0.0025		mg/L		10/20/21 09:39	10/20/21 19:26	1
Beryllium	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:26	1
Boron	0.85		0.050		mg/L		10/20/21 09:39	10/20/21 19:26	1
Cadmium	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:26	1
Calcium	130		0.20		mg/L		10/20/21 09:39	10/20/21 19:26	1
Chromium	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 19:26	1
Cobalt	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:26	1
Lead	0.00056		0.00050		mg/L		10/20/21 09:39	10/20/21 19:26	1
Molybdenum	0.028		0.0050		mg/L		10/20/21 09:39	10/20/21 19:26	1
Selenium	<0.0025		0.0025		mg/L		10/20/21 09:39	10/20/21 19:26	1
Thallium	<0.0020		0.0020		mg/L		10/20/21 09:39	10/20/21 19:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/21/21 09:30	10/22/21 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			10/06/21 13:59	1
Chloride	140		10		mg/L			10/19/21 16:50	5
Fluoride	0.70		0.10		mg/L			10/12/21 10:05	1
Sulfate	430		50		mg/L			10/05/21 18:19	10

Client Sample Results

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

Job ID: 500-206165-1

Client Sample ID: MW-20

Lab Sample ID: 500-206165-4

Date Collected: 10/01/21 12:50

Matrix: Water

Date Received: 10/02/21 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^1+	0.010		mg/L		10/20/21 09:39	10/21/21 19:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/20/21 09:39	10/20/21 19:29	1
Arsenic	0.0029		0.0010		mg/L		10/20/21 09:39	10/20/21 19:29	1
Barium	0.13		0.0025		mg/L		10/20/21 09:39	10/20/21 19:29	1
Beryllium	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:29	1
Boron	1.7		0.050		mg/L		10/20/21 09:39	10/20/21 19:29	1
Cadmium	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:29	1
Calcium	210		0.20		mg/L		10/20/21 09:39	10/20/21 19:29	1
Chromium	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 19:29	1
Cobalt	0.0016		0.0010		mg/L		10/20/21 09:39	10/20/21 19:29	1
Lead	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:29	1
Molybdenum	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 19:29	1
Selenium	<0.0025		0.0025		mg/L		10/20/21 09:39	10/20/21 19:29	1
Thallium	<0.0020		0.0020		mg/L		10/20/21 09:39	10/20/21 19:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/21/21 09:30	10/22/21 10:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			10/06/21 14:02	1
Chloride	80		6.0		mg/L			10/19/21 16:51	3
Fluoride	0.13		0.10		mg/L			10/12/21 10:08	1
Sulfate	180		25		mg/L			10/05/21 18:30	5

Client Sample ID: Duplicate

Lab Sample ID: 500-206165-5

Date Collected: 10/01/21 00:00

Matrix: Water

Date Received: 10/02/21 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.035	^1+	0.010		mg/L		10/20/21 09:39	10/21/21 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/20/21 09:39	10/20/21 19:33	1
Arsenic	0.0018		0.0010		mg/L		10/20/21 09:39	10/20/21 19:33	1
Barium	0.034		0.0025		mg/L		10/20/21 09:39	10/20/21 19:33	1
Beryllium	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:33	1
Boron	1.9		0.050		mg/L		10/20/21 09:39	10/20/21 19:33	1
Cadmium	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:33	1
Calcium	200		0.20		mg/L		10/20/21 09:39	10/20/21 19:33	1
Chromium	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 19:33	1
Cobalt	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:33	1
Lead	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:33	1
Molybdenum	0.036		0.0050		mg/L		10/20/21 09:39	10/20/21 19:33	1
Selenium	<0.0025		0.0025		mg/L		10/20/21 09:39	10/20/21 19:33	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-206165-1

Client Sample ID: Duplicate

Lab Sample ID: 500-206165-5

Date Collected: 10/01/21 00:00

Matrix: Water

Date Received: 10/02/21 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.0020		0.0020		mg/L		10/20/21 09:39	10/20/21 19:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/21/21 09:30	10/22/21 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			10/06/21 14:04	1
Chloride	100		6.0		mg/L			10/19/21 16:51	3
Fluoride	0.95		0.10		mg/L			10/12/21 10:12	1
Sulfate	630		100		mg/L			10/05/21 18:20	20

Client Sample ID: MW-13

Lab Sample ID: 500-206165-6

Date Collected: 10/01/21 11:20

Matrix: Water

Date Received: 10/02/21 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^1+	0.010		mg/L		10/20/21 09:39	10/21/21 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/20/21 09:39	10/20/21 19:36	1
Arsenic	0.025		0.0010		mg/L		10/20/21 09:39	10/20/21 19:36	1
Barium	0.25		0.0025		mg/L		10/20/21 09:39	10/20/21 19:36	1
Beryllium	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:36	1
Boron	2.8		0.050		mg/L		10/20/21 09:39	10/20/21 19:36	1
Cadmium	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:36	1
Calcium	320		1.0		mg/L		10/20/21 09:39	10/21/21 14:55	5
Chromium	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 19:36	1
Cobalt	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:36	1
Lead	0.00065		0.00050		mg/L		10/20/21 09:39	10/20/21 19:36	1
Molybdenum	0.023		0.0050		mg/L		10/20/21 09:39	10/20/21 19:36	1
Selenium	<0.0025		0.0025		mg/L		10/20/21 09:39	10/20/21 19:36	1
Thallium	<0.0020		0.0020		mg/L		10/20/21 09:39	10/20/21 19:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/21/21 09:30	10/22/21 10:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2500		10		mg/L			10/06/21 14:07	1
Chloride	120		10		mg/L			10/19/21 16:51	5
Fluoride	0.36		0.10		mg/L			10/12/21 10:15	1
Sulfate	1300		250		mg/L			10/05/21 18:27	50

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-206165-1

Client Sample ID: MW-21

Lab Sample ID: 500-206165-7

Date Collected: 10/08/21 11:30

Matrix: Water

Date Received: 10/08/21 16:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^1+	0.010		mg/L		10/20/21 09:39	10/21/21 19:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/20/21 09:39	10/20/21 19:40	1
Arsenic	0.036		0.0010		mg/L		10/20/21 09:39	10/20/21 19:40	1
Barium	0.45		0.0025		mg/L		10/20/21 09:39	10/20/21 19:40	1
Beryllium	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 19:40	1
Boron	0.35		0.050		mg/L		10/20/21 09:39	10/20/21 19:40	1
Cadmium	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 19:40	1
Calcium	160		0.20		mg/L		10/20/21 09:39	10/20/21 19:40	1
Chromium	0.0072		0.0050		mg/L		10/20/21 09:39	10/20/21 19:40	1
Cobalt	0.0072		0.0010		mg/L		10/20/21 09:39	10/20/21 19:40	1
Lead	0.0026		0.00050		mg/L		10/20/21 09:39	10/20/21 19:40	1
Molybdenum	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 19:40	1
Selenium	<0.0025		0.0025		mg/L		10/20/21 09:39	10/20/21 19:40	1
Thallium	<0.0020		0.0020		mg/L		10/20/21 09:39	10/20/21 19:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/21/21 09:30	10/22/21 10:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	810		10		mg/L			10/11/21 02:58	1
Chloride	38		2.0		mg/L			10/19/21 16:52	1
Fluoride	0.19		0.10		mg/L			10/12/21 10:18	1
Sulfate	<5.0		5.0		mg/L			10/20/21 14:35	1

Definitions/Glossary

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

Job ID: 500-206165-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

General Chemistry

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

Glossary

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

QC Association Summary

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

Job ID: 500-206165-1

Metals

Prep Batch: 624492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total Recoverable	Water	3005A	
500-206165-2	MW-14	Total Recoverable	Water	3005A	
500-206165-3	MW-17	Total Recoverable	Water	3005A	
500-206165-4	MW-20	Total Recoverable	Water	3005A	
500-206165-5	Duplicate	Total Recoverable	Water	3005A	
500-206165-6	MW-13	Total Recoverable	Water	3005A	
500-206165-7	MW-21	Total Recoverable	Water	3005A	
MB 500-624492/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-624492/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 624711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total Recoverable	Water	6020A	624492
500-206165-2	MW-14	Total Recoverable	Water	6020A	624492
500-206165-3	MW-17	Total Recoverable	Water	6020A	624492
500-206165-4	MW-20	Total Recoverable	Water	6020A	624492
500-206165-5	Duplicate	Total Recoverable	Water	6020A	624492
500-206165-6	MW-13	Total Recoverable	Water	6020A	624492
500-206165-7	MW-21	Total Recoverable	Water	6020A	624492
MB 500-624492/1-A	Method Blank	Total Recoverable	Water	6020A	624492
LCS 500-624492/2-A	Lab Control Sample	Total Recoverable	Water	6020A	624492

Prep Batch: 624717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total/NA	Water	7470A	
500-206165-2	MW-14	Total/NA	Water	7470A	
500-206165-3	MW-17	Total/NA	Water	7470A	
500-206165-4	MW-20	Total/NA	Water	7470A	
500-206165-5	Duplicate	Total/NA	Water	7470A	
500-206165-6	MW-13	Total/NA	Water	7470A	
500-206165-7	MW-21	Total/NA	Water	7470A	
MB 500-624717/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-624717/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-206165-1 MS	MW-15	Total/NA	Water	7470A	
500-206165-1 MSD	MW-15	Total/NA	Water	7470A	
500-206165-1 DU	MW-15	Total/NA	Water	7470A	

Analysis Batch: 624790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-6	MW-13	Total Recoverable	Water	6020A	624492

Analysis Batch: 624918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total Recoverable	Water	6010C	624492
500-206165-2	MW-14	Total Recoverable	Water	6010C	624492
500-206165-3	MW-17	Total Recoverable	Water	6010C	624492
500-206165-4	MW-20	Total Recoverable	Water	6010C	624492
500-206165-5	Duplicate	Total Recoverable	Water	6010C	624492
500-206165-6	MW-13	Total Recoverable	Water	6010C	624492
500-206165-7	MW-21	Total Recoverable	Water	6010C	624492
MB 500-624492/1-A	Method Blank	Total Recoverable	Water	6010C	624492

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-206165-1

Metals (Continued)

Analysis Batch: 624918 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-624492/2-A	Lab Control Sample	Total Recoverable	Water	6010C	624492

Analysis Batch: 624947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total/NA	Water	7470A	624717
500-206165-2	MW-14	Total/NA	Water	7470A	624717
500-206165-3	MW-17	Total/NA	Water	7470A	624717
500-206165-4	MW-20	Total/NA	Water	7470A	624717
500-206165-5	Duplicate	Total/NA	Water	7470A	624717
500-206165-6	MW-13	Total/NA	Water	7470A	624717
500-206165-7	MW-21	Total/NA	Water	7470A	624717
MB 500-624717/12-A	Method Blank	Total/NA	Water	7470A	624717
LCS 500-624717/13-A	Lab Control Sample	Total/NA	Water	7470A	624717
500-206165-1 MS	MW-15	Total/NA	Water	7470A	624717
500-206165-1 MSD	MW-15	Total/NA	Water	7470A	624717
500-206165-1 DU	MW-15	Total/NA	Water	7470A	624717

General Chemistry

Analysis Batch: 621988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-206165-2	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-206165-3	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-206165-4	MW-20	Total/NA	Water	SM 4500 SO4 E	
500-206165-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-206165-6	MW-13	Total/NA	Water	SM 4500 SO4 E	
MB 500-621988/46	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-621988/48	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-206165-1 MS	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-206165-1 MSD	MW-15	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 622172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total/NA	Water	SM 2540C	
500-206165-2	MW-14	Total/NA	Water	SM 2540C	
500-206165-3	MW-17	Total/NA	Water	SM 2540C	
500-206165-4	MW-20	Total/NA	Water	SM 2540C	
500-206165-5	Duplicate	Total/NA	Water	SM 2540C	
500-206165-6	MW-13	Total/NA	Water	SM 2540C	
MB 500-622172/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-622172/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 622724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-7	MW-21	Total/NA	Water	SM 2540C	
MB 500-622724/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-622724/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-206165-7 MS	MW-21	Total/NA	Water	SM 2540C	
500-206165-7 DU	MW-21	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-206165-1

General Chemistry

Analysis Batch: 623086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total/NA	Water	SM 4500 F C	
500-206165-2	MW-14	Total/NA	Water	SM 4500 F C	
500-206165-3	MW-17	Total/NA	Water	SM 4500 F C	
500-206165-4	MW-20	Total/NA	Water	SM 4500 F C	
500-206165-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-206165-6	MW-13	Total/NA	Water	SM 4500 F C	
500-206165-7	MW-21	Total/NA	Water	SM 4500 F C	
MB 500-623086/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-623086/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 624360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-206165-2	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-206165-3	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-206165-4	MW-20	Total/NA	Water	SM 4500 Cl- E	
500-206165-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-206165-6	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-206165-7	MW-21	Total/NA	Water	SM 4500 Cl- E	
MB 500-624360/52	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-624360/53	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-206165-1 MS	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-206165-1 MSD	MW-15	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 624562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-7	MW-21	Total/NA	Water	SM 4500 SO4 E	
MB 500-624562/54	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-624562/55	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-206165-7 MS	MW-21	Total/NA	Water	SM 4500 SO4 E	
500-206165-7 MSD	MW-21	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-206165-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-624492/1-A
Matrix: Water
Analysis Batch: 624918

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 624492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010	^1+	0.010		mg/L		10/20/21 09:39	10/21/21 19:04	1

Lab Sample ID: LCS 500-624492/2-A
Matrix: Water
Analysis Batch: 624918

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 624492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.538	^1+	mg/L		108	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-624492/1-A
Matrix: Water
Analysis Batch: 624711

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 624492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		10/20/21 09:39	10/20/21 18:07	1
Arsenic	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 18:07	1
Barium	<0.0025		0.0025		mg/L		10/20/21 09:39	10/20/21 18:07	1
Beryllium	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 18:07	1
Boron	<0.050		0.050		mg/L		10/20/21 09:39	10/20/21 18:07	1
Cadmium	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 18:07	1
Calcium	<0.20		0.20		mg/L		10/20/21 09:39	10/20/21 18:07	1
Chromium	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 18:07	1
Cobalt	<0.0010		0.0010		mg/L		10/20/21 09:39	10/20/21 18:07	1
Lead	<0.00050		0.00050		mg/L		10/20/21 09:39	10/20/21 18:07	1
Molybdenum	<0.0050		0.0050		mg/L		10/20/21 09:39	10/20/21 18:07	1
Selenium	<0.0025		0.0025		mg/L		10/20/21 09:39	10/20/21 18:07	1
Thallium	<0.0020		0.0020		mg/L		10/20/21 09:39	10/20/21 18:07	1

Lab Sample ID: LCS 500-624492/2-A
Matrix: Water
Analysis Batch: 624711

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 624492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.509		mg/L		102	80 - 120
Arsenic	0.100	0.0986		mg/L		99	80 - 120
Barium	2.00	2.00		mg/L		100	80 - 120
Beryllium	0.0500	0.0490		mg/L		98	80 - 120
Boron	1.00	0.984		mg/L		98	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	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	0.509		mg/L		102	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Molybdenum	1.00	0.986		mg/L		99	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

QC Sample Results

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

Job ID: 500-206165-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-624717/12-A
Matrix: Water
Analysis Batch: 624947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		10/21/21 09:30	10/22/21 10:00	1

Lab Sample ID: LCS 500-624717/13-A
Matrix: Water
Analysis Batch: 624947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624717

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

Lab Sample ID: 500-206165-1 MS
Matrix: Water
Analysis Batch: 624947

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 624717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000924		mg/L		92	75 - 125

Lab Sample ID: 500-206165-1 MSD
Matrix: Water
Analysis Batch: 624947

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 624717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000942		mg/L		94	75 - 125	2	20

Lab Sample ID: 500-206165-1 DU
Matrix: Water
Analysis Batch: 624947

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 624717

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 500-622172/1
Matrix: Water
Analysis Batch: 622172

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			10/06/21 13:39	1

Lab Sample ID: LCS 500-622172/2
Matrix: Water
Analysis Batch: 622172

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

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

QC Sample Results

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

Job ID: 500-206165-1

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

Lab Sample ID: MB 500-622724/1
Matrix: Water
Analysis Batch: 622724

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			10/11/21 02:53	1

Lab Sample ID: LCS 500-622724/2
Matrix: Water
Analysis Batch: 622724

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

Lab Sample ID: 500-206165-7 MS
Matrix: Water
Analysis Batch: 622724

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	810		250	1080		mg/L		108	75 - 125

Lab Sample ID: 500-206165-7 DU
Matrix: Water
Analysis Batch: 622724

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

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	810			804		mg/L		1	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-624360/52
Matrix: Water
Analysis Batch: 624360

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			10/19/21 16:49	1

Lab Sample ID: LCS 500-624360/53
Matrix: Water
Analysis Batch: 624360

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	21.1		mg/L		105	85 - 115

Lab Sample ID: 500-206165-1 MS
Matrix: Water
Analysis Batch: 624360

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	180		20.0	201	4	mg/L		84	75 - 125

QC Sample Results

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

Job ID: 500-206165-1

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

Lab Sample ID: 500-206165-1 MSD
Matrix: Water
Analysis Batch: 624360

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	180		20.0	202	4	mg/L		93	75 - 125	1	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-623086/3
Matrix: Water
Analysis Batch: 623086

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			10/12/21 09:51	1

Lab Sample ID: LCS 500-623086/4
Matrix: Water
Analysis Batch: 623086

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.5		mg/L		105	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-621988/46
Matrix: Water
Analysis Batch: 621988

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			10/05/21 18:16	1

Lab Sample ID: LCS 500-621988/48
Matrix: Water
Analysis Batch: 621988

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.6		mg/L		103	88 - 123

Lab Sample ID: 500-206165-1 MS
Matrix: Water
Analysis Batch: 621988

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	430		20.0	447	4	mg/L		69	75 - 125

Lab Sample ID: 500-206165-1 MSD
Matrix: Water
Analysis Batch: 621988

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	430		20.0	454	4	mg/L		103	75 - 125	1	20

QC Sample Results

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

Job ID: 500-206165-1

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

Lab Sample ID: MB 500-624562/54
Matrix: Water
Analysis Batch: 624562

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			10/20/21 14:35	1

Lab Sample ID: LCS 500-624562/55
Matrix: Water
Analysis Batch: 624562

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	21.0		mg/L		105	88 - 123

Lab Sample ID: 500-206165-7 MS
Matrix: Water
Analysis Batch: 624562

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	<5.0		20.0	24.9		mg/L		124	75 - 125

Lab Sample ID: 500-206165-7 MSD
Matrix: Water
Analysis Batch: 624562

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


Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	<5.0		20.0	25.1		mg/L		125	75 - 125	1	20

Eurofins TestAmerica, Chicago

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

Chain of Custody Record

eurofins Environment Testing America

Client Information		Sampler: <u>M. Ress</u>	Lab PM: Mockler Diana J	Carrier Tracking No(s)	COC No: 500-95589-42293 1								
Client Contact: Mitchel Dolan		Phone: <u>630.602.7240</u>	E-Mail: Diana Mockler@Eurofinset.com	State of Origin: <u>IL</u>	Page: Page 1 of 1								
Company: KPRG and Associates Inc		PWSID	Analysis Requested		Job #: <u>500-206165</u>								
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested	 500-206165 COC		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H - Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:								
City: Brookfield		TAT Requested (days):											
State Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Phone: 262-781-0475(Tel)		PO #: 4502051132											
Email: mitcheld@kprginc.com		WO #:											
Project Name: Powerton CCR MCB		Project #: 50018578	Total Number of containers:										
Site		SSOW#											
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)	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A	Special Instructions/Note
				Preservation Code:									
MW-21				G	Water	N	X	X	X	X	X		
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements											
Empty Kit Relinquished by		Date		Time		Method of Shipment.							
Relinquished by: <u>Michael Ress</u>		Date/Time: <u>10/8/16 10</u>		Company: <u>KPRG</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>10/8/21 1610</u>		Company: <u>ETA-CH</u>			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: <u>1792569</u>		Cooler Temperature(s) °C and Other Remarks: <u>0 7</u>									



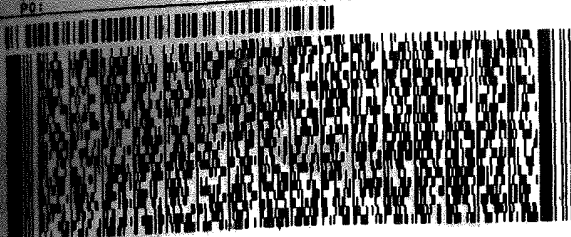
ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01OCT21
ACTWGT: 56.00 LB
CAD: 6994779/6SFE2220
DIMS: 24x18x12 IN
BILL THIRD PARTY

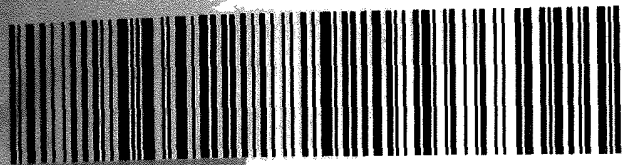
TO **SAMPLE RECEIVING**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



2 of 2
MPS# 2844 3434 6659
0263
Mstr# 2844 3434 6648 0201
XO JOTA
SATURDAY 12:00P
PRIORITY OVERNIGHT
60484
IL-US ORD



FedEx Express

SDR

Part # 156297-486 FARGO-1616P 04/22

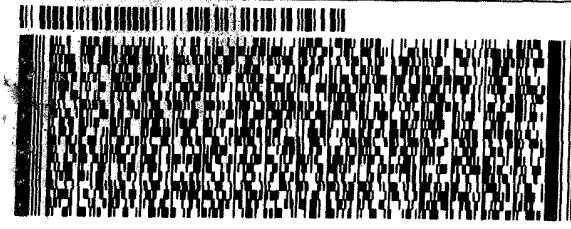
ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01OCT21
ACTWGT: 51.00 LB
CAD: 6994779/6SFE2220
DIMS: 24x18x12 IN
BILL THIRD

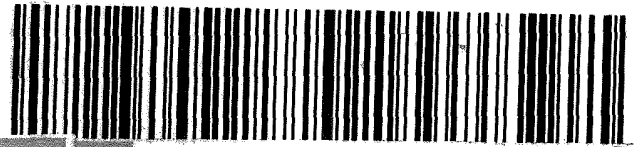
TO **SAMPLE RECEIVING**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



1 of 2
TRK# 2844 3434 6648
0201
MASTER ##
XO JOTA
SATURDAY 12:00P
PRIORITY OVERNIGHT
60484
IL-US ORD



SDR

Saturday Delivery

151966 10/04 MWI

FedEx

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-206165-1

Login Number: 206165

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5,0.9,0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
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.	False	No date or time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-206165-1

Client Sample ID: MW-15

Date Collected: 10/01/21 09:58

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	624918	10/21/21 19:10	JJB	TAL CHI
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	624711	10/20/21 19:19	FXG	TAL CHI
Total/NA	Prep	7470A			624717	10/21/21 09:30	MJG	TAL CHI
Total/NA	Analysis	7470A		1	624947	10/22/21 10:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	622172	10/06/21 13:54	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	624360	10/19/21 16:49	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	623086	10/12/21 09:59	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	621988	10/05/21 18:17	RES	TAL CHI

Client Sample ID: MW-14

Date Collected: 10/01/21 11:46

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	624918	10/21/21 19:13	JJB	TAL CHI
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	624711	10/20/21 19:22	FXG	TAL CHI
Total/NA	Prep	7470A			624717	10/21/21 09:30	MJG	TAL CHI
Total/NA	Analysis	7470A		1	624947	10/22/21 10:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	622172	10/06/21 13:57	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	624360	10/19/21 16:50	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	623086	10/12/21 10:02	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	621988	10/05/21 18:19	RES	TAL CHI

Client Sample ID: MW-17

Date Collected: 10/01/21 10:45

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	624918	10/21/21 19:17	JJB	TAL CHI
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	624711	10/20/21 19:26	FXG	TAL CHI
Total/NA	Prep	7470A			624717	10/21/21 09:30	MJG	TAL CHI
Total/NA	Analysis	7470A		1	624947	10/22/21 10:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	622172	10/06/21 13:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	624360	10/19/21 16:50	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	623086	10/12/21 10:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	621988	10/05/21 18:19	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-206165-1

Client Sample ID: MW-20
Date Collected: 10/01/21 12:50
Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	624918	10/21/21 19:20	JJB	TAL CHI
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	624711	10/20/21 19:29	FXG	TAL CHI
Total/NA	Prep	7470A			624717	10/21/21 09:30	MJG	TAL CHI
Total/NA	Analysis	7470A		1	624947	10/22/21 10:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	622172	10/06/21 14:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	624360	10/19/21 16:51	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	623086	10/12/21 10:08	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	621988	10/05/21 18:30	RES	TAL CHI

Client Sample ID: Duplicate
Date Collected: 10/01/21 00:00
Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	624918	10/21/21 19:30	JJB	TAL CHI
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	624711	10/20/21 19:33	FXG	TAL CHI
Total/NA	Prep	7470A			624717	10/21/21 09:30	MJG	TAL CHI
Total/NA	Analysis	7470A		1	624947	10/22/21 10:38	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	622172	10/06/21 14:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	624360	10/19/21 16:51	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	623086	10/12/21 10:12	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	621988	10/05/21 18:20	RES	TAL CHI

Client Sample ID: MW-13
Date Collected: 10/01/21 11:20
Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	624918	10/21/21 19:33	JJB	TAL CHI
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	624790	10/21/21 14:55	FXG	TAL CHI
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	624711	10/20/21 19:36	FXG	TAL CHI
Total/NA	Prep	7470A			624717	10/21/21 09:30	MJG	TAL CHI
Total/NA	Analysis	7470A		1	624947	10/22/21 10:45	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	622172	10/06/21 14:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	624360	10/19/21 16:51	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	623086	10/12/21 10:15	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	621988	10/05/21 18:27	RES	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-206165-1

Client Sample ID: MW-21

Date Collected: 10/08/21 11:30

Date Received: 10/08/21 16:10

Lab Sample ID: 500-206165-7

Matrix: Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	624918	10/21/21 19:36	JJB	TAL CHI
Total Recoverable	Prep	3005A			624492	10/20/21 09:39	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	624711	10/20/21 19:40	FXG	TAL CHI
Total/NA	Prep	7470A			624717	10/21/21 09:30	MJG	TAL CHI
Total/NA	Analysis	7470A		1	624947	10/22/21 10:47	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	622724	10/11/21 02:58	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	624360	10/19/21 16:52	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	623086	10/12/21 10:18	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	624562	10/20/21 14:35	RES	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-206165-1

Laboratory: Eurofins TestAmerica, Chicago

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

ANALYTICAL REPORT

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

Laboratory Job ID: 500-206165-2
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:
11/12/2021 8:34:59 AM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Case Narrative	3
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	12
QC Association	13
QC Sample Results	14
Chain of Custody	17
Receipt Checklists	23
Chronicle	26
Certification Summary	28
Tracer Carrier Summary	29



Case Narrative

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

Job ID: 500-206165-2

Job ID: 500-206165-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-206165-2

Comments

No additional comments.

Receipt

The samples were received on 10/2/2021 11:10 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.5° C, 0.7° C and 0.9° C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No date/time on COC for sample #7 "MW-21". Logged per container labels.

RAD

Methods 903.0, 9315: Radium 226 batch 530550

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

MW-15 (500-206165-1), MW-14 (500-206165-2), MW-17 (500-206165-3), MW-20 (500-206165-4), Duplicate (500-206165-5), MW-13 (500-206165-6), (LCS 160-530550/1-A), (MB 160-530550/24-A), (500-206165-D-1-A DU), (500-206288-E-2-A), (500-206288-C-2-A MS) and (500-206288-C-2-B MSD)

Methods 903.0, 9315: Radium 226 batch 532029

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-21 (500-206165-7), (LCS 160-532029/1-A), (MB 160-532029/23-A), (500-206165-C-7-B DU), (310-217215-E-2-A), (310-217215-F-2-A MS) and (310-217215-E-2-B MSD)

Methods 903.0, 9315: Radium 226 batch 532029

The sample duplicate (DUP) precision for radium 226 was outside control limits. Sample matrix interference is was identified during the prep process. (500-206165-C-7-B DU)

Methods 904.0, 9320: Ra-228 batch 160-530555

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

MW-15 (500-206165-1), MW-14 (500-206165-2), MW-17 (500-206165-3), MW-20 (500-206165-4), Duplicate (500-206165-5), MW-13 (500-206165-6), (LCS 160-530555/1-A), (MB 160-530555/24-A), (500-206165-D-1-B DU), (500-206288-E-2-B), (500-206288-C-2-C MS) and (500-206288-C-2-D MSD)

Methods 904.0, 9320: Ra-228 batch 160-532035

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-21 (500-206165-7), (LCS 160-532035/1-A), (MB 160-532035/23-A), (500-206165-C-7-D DU), (310-217215-E-2-C), (310-217215-F-2-B MS) and (310-217215-E-2-D MSD)

Methods 904.0, 9320: Ra-228 batch 160-532035

The detection goal was not met for the following samples due to the presence of matrix interferences. Samples were diluted during prep.

Case Narrative

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

Job ID: 500-206165-2

Job ID: 500-206165-2 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

MW-21 (500-206165-7) and (500-206165-C-7-D DU). Analytical results are reported with the detection limit achieved.

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep-21:

Method PrecSep-21:

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

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

Method Summary

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

Job ID: 500-206165-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-206165-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-206165-1	MW-15	Water	10/01/21 09:58	10/02/21 11:10
500-206165-2	MW-14	Water	10/01/21 11:46	10/02/21 11:10
500-206165-3	MW-17	Water	10/01/21 10:45	10/02/21 11:10
500-206165-4	MW-20	Water	10/01/21 12:50	10/02/21 11:10
500-206165-5	Duplicate	Water	10/01/21 00:00	10/02/21 11:10
500-206165-6	MW-13	Water	10/01/21 11:20	10/02/21 11:10
500-206165-7	MW-21	Water	10/08/21 11:30	10/08/21 16:10

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

Client Sample Results

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

Job ID: 500-206165-2

Client Sample ID: MW-15

Lab Sample ID: 500-206165-1

Date Collected: 10/01/21 09:58

Matrix: Water

Date Received: 10/02/21 11:10

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.214	U	0.137	0.137	1.00	0.214	pCi/L	10/08/21 10:44	11/08/21 09:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					10/08/21 10:44	11/08/21 09:19	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.511	U	0.298	0.298	1.00	0.511	pCi/L	10/08/21 11:26	11/04/21 16:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					10/08/21 11:26	11/04/21 16:56	1
Y Carrier	84.9		40 - 110					10/08/21 11:26	11/04/21 16:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.511	U	0.328	0.328	5.00	0.511	pCi/L		11/12/21 00:56	1

Client Sample ID: MW-14

Lab Sample ID: 500-206165-2

Date Collected: 10/01/21 11:46

Matrix: Water

Date Received: 10/02/21 11:10

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.291		0.147	0.149	1.00	0.174	pCi/L	10/08/21 10:44	11/08/21 09:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					10/08/21 10:44	11/08/21 09:21	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.581	U	0.342	0.343	1.00	0.581	pCi/L	10/08/21 11:26	11/04/21 16:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					10/08/21 11:26	11/04/21 16:56	1
Y Carrier	85.6		40 - 110					10/08/21 11:26	11/04/21 16:56	1

Client Sample Results

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

Job ID: 500-206165-2

Client Sample ID: MW-14

Date Collected: 10/01/21 11:46

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-2

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.581	U	0.372	0.374	5.00	0.581	pCi/L		11/12/21 00:56	1

Client Sample ID: MW-17

Date Collected: 10/01/21 10:45

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-3

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.173	U	0.113	0.113	1.00	0.173	pCi/L	10/08/21 10:44	11/08/21 09:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/08/21 10:44	11/08/21 09:21	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.444	U	0.277	0.279	1.00	0.444	pCi/L	10/08/21 11:26	11/04/21 16:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/08/21 11:26	11/04/21 16:56	1
Y Carrier	87.1		40 - 110					10/08/21 11:26	11/04/21 16:56	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.444	U	0.299	0.301	5.00	0.444	pCi/L		11/12/21 00:56	1

Client Sample ID: MW-20

Date Collected: 10/01/21 12:50

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-4

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.255		0.150	0.151	1.00	0.195	pCi/L	10/08/21 10:44	11/08/21 09:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					10/08/21 10:44	11/08/21 09:21	1

Client Sample Results

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

Job ID: 500-206165-2

Client Sample ID: MW-20

Lab Sample ID: 500-206165-4

Date Collected: 10/01/21 12:50

Matrix: Water

Date Received: 10/02/21 11:10

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.508		0.305	0.309	1.00	0.461	pCi/L	10/08/21 11:26	11/04/21 16:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.9		40 - 110					10/08/21 11:26	11/04/21 16:57	1
Y Carrier	86.0		40 - 110					10/08/21 11:26	11/04/21 16:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.763		0.340	0.344	5.00	0.461	pCi/L		11/12/21 00:56	1

Client Sample ID: Duplicate

Lab Sample ID: 500-206165-5

Date Collected: 10/01/21 00:00

Matrix: Water

Date Received: 10/02/21 11:10

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.231	U	0.130	0.130	1.00	0.231	pCi/L	10/08/21 10:44	11/08/21 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					10/08/21 10:44	11/08/21 10:48	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.630	U	0.372	0.373	1.00	0.630	pCi/L	10/08/21 11:26	11/04/21 16:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110					10/08/21 11:26	11/04/21 16:57	1
Y Carrier	85.6		40 - 110					10/08/21 11:26	11/04/21 16:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.630	U	0.394	0.395	5.00	0.630	pCi/L		11/12/21 00:56	1

Client Sample Results

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

Job ID: 500-206165-2

Client Sample ID: MW-13

Date Collected: 10/01/21 11:20

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-6

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.265		0.166	0.167	1.00	0.231	pCi/L	10/08/21 10:44	11/08/21 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/08/21 10:44	11/08/21 10:49	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.577	U	0.315	0.316	1.00	0.577	pCi/L	10/08/21 11:26	11/04/21 16:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		40 - 110					10/08/21 11:26	11/04/21 16:59	1
Y Carrier	84.1		40 - 110					10/08/21 11:26	11/04/21 16:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.577	U	0.356	0.357	5.00	0.577	pCi/L		11/12/21 00:56	1

Client Sample ID: MW-21

Date Collected: 10/08/21 11:30

Date Received: 10/08/21 16:10

Lab Sample ID: 500-206165-7

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.948	U	0.579	0.581	1.00	0.948	pCi/L	10/15/21 14:43	11/09/21 20:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					10/15/21 14:43	11/09/21 20:48	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<1.08	U G	0.625	0.625	1.00	1.08	pCi/L	10/15/21 15:35	11/09/21 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.1		40 - 110					10/15/21 15:35	11/09/21 13:48	1
Y Carrier	84.9		40 - 110					10/15/21 15:35	11/09/21 13:48	1

Euofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-206165-2

Client Sample ID: MW-21

Lab Sample ID: 500-206165-7

Date Collected: 10/08/21 11:30

Matrix: Water

Date Received: 10/08/21 16:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<1.08	U	0.852	0.853	5.00	1.08	pCi/L		11/12/21 00:57	1

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

Definitions/Glossary

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

Job ID: 500-206165-2

Qualifiers

Rad

Qualifier	Qualifier Description
F	Duplicate RPD exceeds the control limit
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

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

Job ID: 500-206165-2

Rad

Prep Batch: 530550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total/NA	Water	PrecSep-21	
500-206165-2	MW-14	Total/NA	Water	PrecSep-21	
500-206165-3	MW-17	Total/NA	Water	PrecSep-21	
500-206165-4	MW-20	Total/NA	Water	PrecSep-21	
500-206165-5	Duplicate	Total/NA	Water	PrecSep-21	
500-206165-6	MW-13	Total/NA	Water	PrecSep-21	
MB 160-530550/24-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-530550/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-206165-1 DU	MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 530555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-1	MW-15	Total/NA	Water	PrecSep_0	
500-206165-2	MW-14	Total/NA	Water	PrecSep_0	
500-206165-3	MW-17	Total/NA	Water	PrecSep_0	
500-206165-4	MW-20	Total/NA	Water	PrecSep_0	
500-206165-5	Duplicate	Total/NA	Water	PrecSep_0	
500-206165-6	MW-13	Total/NA	Water	PrecSep_0	
MB 160-530555/24-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-530555/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-206165-1 DU	MW-15	Total/NA	Water	PrecSep_0	

Prep Batch: 532029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-7	MW-21	Total/NA	Water	PrecSep-21	
MB 160-532029/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-532029/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-206165-7 DU	MW-21	Total/NA	Water	PrecSep-21	

Prep Batch: 532035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-206165-7	MW-21	Total/NA	Water	PrecSep_0	
MB 160-532035/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-532035/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-206165-7 DU	MW-21	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-206165-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-530550/24-A
Matrix: Water
Analysis Batch: 535397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530550

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.185	U	0.0975	0.0976	1.00	0.185	pCi/L	10/08/21 10:44	11/08/21 11:13	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					10/08/21 10:44	11/08/21 11:13	1

Lab Sample ID: LCS 160-530550/1-A
Matrix: Water
Analysis Batch: 535397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530550

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	13.70		1.49	1.00	0.237	pCi/L	91	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield 101	Qualifier	40 - 110						

Lab Sample ID: 500-206165-1 DU
Matrix: Water
Analysis Batch: 535397

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 530550

Analyte	Sample		DU		Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	DU Qual	Uncert. (2σ+/-)					
Radium-226	<0.214	U	<0.217	U	0.138	1.00	0.217	pCi/L	0.03	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield 94.8	Qualifier	40 - 110							

Lab Sample ID: MB 160-532029/23-A
Matrix: Water
Analysis Batch: 536046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 532029

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.319	U	0.192	0.192	1.00	0.319	pCi/L	10/15/21 14:43	11/11/21 09:04	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		40 - 110					10/15/21 14:43	11/11/21 09:04	1

Lab Sample ID: LCS 160-532029/1-A
Matrix: Water
Analysis Batch: 535777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532029

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	15.1	13.90		1.86	1.00	0.430	pCi/L	92	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-206165-2

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

Lab Sample ID: LCS 160-532029/1-A
Matrix: Water
Analysis Batch: 535777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532029

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	83.2		40 - 110

Lab Sample ID: 500-206165-7 DU
Matrix: Water
Analysis Batch: 535779

Client Sample ID: MW-21
Prep Type: Total/NA
Prep Batch: 532029

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-226	<0.948	U	2.660	F	0.911	1.00	0.881	pCi/L	1.45	1

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

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-530555/24-A
Matrix: Water
Analysis Batch: 535180

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 530555

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110	10/08/21 11:26	11/04/21 17:04	1
Y Carrier	87.1		40 - 110	10/08/21 11:26	11/04/21 17:04	1

Lab Sample ID: LCS 160-530555/1-A
Matrix: Water
Analysis Batch: 535031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 530555

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
									%Rec	Limits
Radium-228	12.2	12.42		1.44	1.00	0.489	pCi/L	102	75 - 125	

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	101		40 - 110
Y Carrier	85.2		40 - 110

Lab Sample ID: 500-206165-1 DU
Matrix: Water
Analysis Batch: 535031

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 530555

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	
									RER	Limit
Radium-228	<0.511	U	0.4978		0.311	1.00	0.465	pCi/L	0.61	1

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-206165-2

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

Lab Sample ID: 500-206165-1 DU
Matrix: Water
Analysis Batch: 535031

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 530555

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	94.8		40 - 110
Y Carrier	86.7		40 - 110

Lab Sample ID: MB 160-532035/23-A
Matrix: Water
Analysis Batch: 535781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 532035

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	<0.452	U	0.262	0.263	1.00	0.452	pCi/L	10/15/21 15:35	11/09/21 13:49	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	92.5		40 - 110	10/15/21 15:35	11/09/21 13:49	1
Y Carrier	89.3		40 - 110	10/15/21 15:35	11/09/21 13:49	1

Lab Sample ID: LCS 160-532035/1-A
Matrix: Water
Analysis Batch: 535778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 532035

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

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	83.2		40 - 110
Y Carrier	80.0		40 - 110

Lab Sample ID: 500-206165-7 DU
Matrix: Water
Analysis Batch: 535781

Client Sample ID: MW-21
Prep Type: Total/NA
Prep Batch: 532035

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	<1.08	U G	<1.01	U G	0.568	1.00	1.01	pCi/L	0.11	1


	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	67.9		40 - 110
Y Carrier	87.5		40 - 110

Eurofins TestAmerica, Chicago

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

Chain of Custody Record

eurofins Environment Testing America

Client Information		Sampler: <u>M. Ress</u>	Lab PM: Mockler Diana J	Carrier Tracking No(s)	COC No: 500-95589-42293 1								
Client Contact: Mitchel Dolan		Phone: <u>630.602.7240</u>	E-Mail: Diana Mockler@Eurofinset.com	State of Origin: <u>IL</u>	Page: Page 1 of 1								
Company: KPRG and Associates Inc		PWSID	Analysis Requested		Job #: <u>500-206165</u>								
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested	 <p>500-206165 COC</p>		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H - Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other:								
City: Brookfield		TAT Requested (days):											
State Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Phone: 262-781-0475(Tel)		PO #: 4502051132											
Email: mitcheld@kprginc.com		WO #:											
Project Name: Powerton CCR MCB		Project #: 50018578	Total Number of containers:										
Site		SSOW#											
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)	2540C, 4500_F, C, SM4500_Cl, E, SM4500_SO4, E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A	Special Instructions/Note
				Preservation Code:									
MW-21				G	Water	N	X	X	X	X	X		
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements											
Empty Kit Relinquished by		Date		Time		Method of Shipment							
Relinquished by: <u>Michael Ress</u>		Date/Time: <u>10/8/16 10</u>		Company: <u>KPRG</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>10/8/21 1610</u>		Company: <u>ETA-CH</u>			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: <u>1792569</u>		Cooler Temperature(s) °C and Other Remarks: <u>0 7</u>									

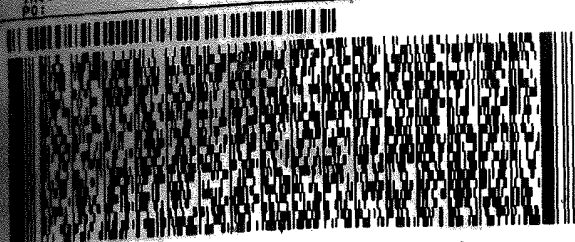
ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01OCT21
ACTWTG: 56.00 LB
CAD: 6994779/6SFE2220
DIMS: 24x18x12 IN
BILL THIRD PARTY

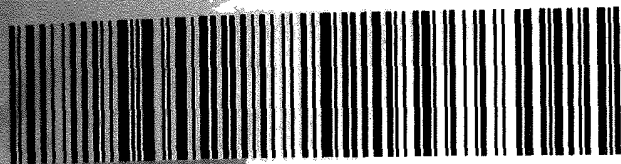
TO **SAMPLE RECEIVING**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



2 of 2
MPS# 2844 3434 6659
0263
Mstr# 2844 3434 6648 0201
XO JOTA
SATURDAY 12:00P
PRIORITY OVERNIGHT
60484
IL-US ORD



FedEx Express

SDR

Part # 156297-486 FARGO-1616 04/22

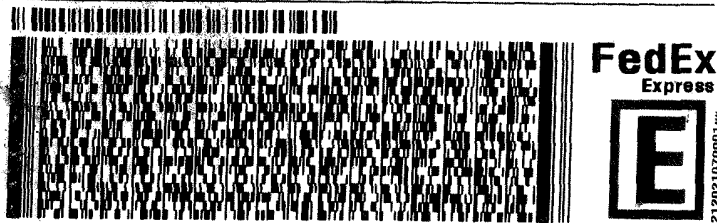
ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01OCT21
ACTWTG: 51.00 LB
CAD: 6994779/6SFE2220
DIMS: 24x18x12 IN
BILL THIRD

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

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:



1 of 2
TRK# 2844 3434 6648
0201
MASTER ##
XO JOTA
SATURDAY 12:00P
PRIORITY OVERNIGHT
60484
IL-US ORD



SDR

Saturday Day Delivery

151966 10/04 MWI

FedEx

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-206165-2

Login Number: 206165

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5,0.9,0.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
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.	False	No date or time on COC, logged in per container labels.
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: 500-206165-2

Login Number: 206165

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/05/21 11:48 AM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-206165-2

Login Number: 206165

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 10/12/21 05:51 PM

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



Lab Chronicle

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

Job ID: 500-206165-2

Client Sample ID: MW-15

Date Collected: 10/01/21 09:58

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	903.0		1	535397	11/08/21 09:19	FLC	TAL SL
Total/NA	Prep	PrecSep_0			530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis	904.0		1	535031	11/04/21 16:56	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	536226	11/12/21 00:56	EMH	TAL SL

Client Sample ID: MW-14

Date Collected: 10/01/21 11:46

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	903.0		1	535397	11/08/21 09:21	FLC	TAL SL
Total/NA	Prep	PrecSep_0			530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis	904.0		1	535031	11/04/21 16:56	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	536226	11/12/21 00:56	EMH	TAL SL

Client Sample ID: MW-17

Date Collected: 10/01/21 10:45

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	903.0		1	535397	11/08/21 09:21	FLC	TAL SL
Total/NA	Prep	PrecSep_0			530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis	904.0		1	535031	11/04/21 16:56	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	536226	11/12/21 00:56	EMH	TAL SL

Client Sample ID: MW-20

Date Collected: 10/01/21 12:50

Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	903.0		1	535397	11/08/21 09:21	FLC	TAL SL
Total/NA	Prep	PrecSep_0			530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis	904.0		1	535031	11/04/21 16:57	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	536226	11/12/21 00:56	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-206165-2

Client Sample ID: Duplicate
Date Collected: 10/01/21 00:00
Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	903.0		1	535393	11/08/21 10:48	FLC	TAL SL
Total/NA	Prep	PrecSep_0			530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis	904.0		1	535031	11/04/21 16:57	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	536226	11/12/21 00:56	EMH	TAL SL

Client Sample ID: MW-13
Date Collected: 10/01/21 11:20
Date Received: 10/02/21 11:10

Lab Sample ID: 500-206165-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			530550	10/08/21 10:44	BMP	TAL SL
Total/NA	Analysis	903.0		1	535393	11/08/21 10:49	FLC	TAL SL
Total/NA	Prep	PrecSep_0			530555	10/08/21 11:26	BMP	TAL SL
Total/NA	Analysis	904.0		1	535030	11/04/21 16:59	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	536226	11/12/21 00:56	EMH	TAL SL

Client Sample ID: MW-21
Date Collected: 10/08/21 11:30
Date Received: 10/08/21 16:10

Lab Sample ID: 500-206165-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			532029	10/15/21 14:43	BMP	TAL SL
Total/NA	Analysis	903.0		1	535779	11/09/21 20:48	FLC	TAL SL
Total/NA	Prep	PrecSep_0			532035	10/15/21 15:35	BMP	TAL SL
Total/NA	Analysis	904.0		1	535781	11/09/21 13:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	536227	11/12/21 00:57	EMH	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-206165-2

Laboratory: Eurofins TestAmerica, St. Louis

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

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Tracer/Carrier Summary

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

Job ID: 500-206165-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-206165-1	MW-15	99.2	
500-206165-1 DU	MW-15	94.8	
500-206165-2	MW-14	99.0	
500-206165-3	MW-17	96.1	
500-206165-4	MW-20	96.9	
500-206165-5	Duplicate	95.6	
500-206165-6	MW-13	96.1	
500-206165-7	MW-21	74.1	
500-206165-7 DU	MW-21	67.9	
LCS 160-530550/1-A	Lab Control Sample	101	
LCS 160-532029/1-A	Lab Control Sample	83.2	
MB 160-530550/24-A	Method Blank	103	
MB 160-532029/23-A	Method Blank	92.5	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-206165-1	MW-15	99.2	84.9
500-206165-1 DU	MW-15	94.8	86.7
500-206165-2	MW-14	99.0	85.6
500-206165-3	MW-17	96.1	87.1
500-206165-4	MW-20	96.9	86.0
500-206165-5	Duplicate	95.6	85.6
500-206165-6	MW-13	96.1	84.1
500-206165-7	MW-21	74.1	84.9
500-206165-7 DU	MW-21	67.9	87.5
LCS 160-530555/1-A	Lab Control Sample	101	85.2
LCS 160-532035/1-A	Lab Control Sample	83.2	80.0
MB 160-530555/24-A	Method Blank	103	87.1
MB 160-532035/23-A	Method Blank	92.5	89.3

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