



Midwest Generation, LLC  
Powerton Generating Station  
13082 E. Manito Road  
Pekin, Illinois 60087

April 29, 2022

Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
1021 North Grand Avenue East  
Springfield, IL 62702

**Re: Midwest Generation, LLC – Powerton Generating Station  
Account No. W1978010008  
CCR Surface Impoundment Groundwater Monitoring Data**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code (“35 IAC”) Section 845.610(b)(3)(D), groundwater monitoring data for First Quarter 2022 is attached for the following CCR surface impoundment at Powerton Generating Station:

Pond ID	CCR Surface Impoundment Description
W1978010008-03	Metal Cleaning Basin (MCB)

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

Sincerely,

Todd Mundorf  
Station Manager, Powerton Station

Attachment

## **DATA SUMMARY POSTING**

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 1<sup>st</sup> quarter 2022 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit for the Metal Cleaning Basin dated March 31, 2022. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL, 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
	11/30/2021	3.1	330	120	0.36	7.79	1000	2100	< 0.003	0.024	0.19	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	< 0.01	< 0.0002	0.021	< 0.635	< 0.0025	< 0.002
	1/6/2022	3.1	280	120	0.4	7.77	950	2000	< 0.003	0.028	0.25	< 0.001	< 0.0005	< 0.005	< 0.001	0.00055	< 0.002	< 0.0002	0.022	1.57	< 0.0025	< 0.002
2/9/2022	2.8	310	120	0.41	7.67	1000	2200	< 0.003	0.026	0.25	< 0.001	< 0.0005	< 0.005	< 0.001	0.00061	< 0.002	< 0.0002	0.02	1.34	< 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	< 0.003	6.83	0.097	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	0.0667	< 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	< 0.003	6.91	0.033	560	1900	< 0.003	0.031	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.016	< 0.0002	0.018	< 0.570	0.0078	< 0.002
	2/17/2017	1.9	200	190	0.43	7.24	670	1700	< 0.003	0.02	0.056	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.027	< 0.392	0.0032	< 0.002
	5/4/2017	1.5	180	190	0.57	7.35	670	1700	< 0.003	0.011	0.049	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	0.023	< 0.456	0.0034	< 0.002
	6/21/2017	1.6	180	200	0.56	7.30	530	1600	< 0.003	0.0093	0.054	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.027	< 0.0002	0.03	< 0.347	0.019	< 0.002
	8/29/2017	2.2	190	200	0.53	6.87	540	1800	< 0.003	0.0018	0.044	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.023	< 0.0002	0.032	< 0.377	0.0092	< 0.002
	11/10/2017	1.6	170	180	0.63	7.09	530	1500	< 0.003	0.0063	0.046	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.025	< 0.0002	0.02	< 0.313	0.016	< 0.002
	5/17/2018	2.3	200	160	0.5	6.75	680	1800	< 0.003	0.0081	0.05	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.029	< 0.0002	0.03	< 0.397	0.077	< 0.002
	8/9/2018	2.3	200	200	0.48	7.06	520	1700	< 0.003	0.0083	0.048	< ^ 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.033	0.566	0.06	< 0.002
	5/2/2019	1.5	180	200	0.52	6.89	420	1500	< 0.003	0.0045	0.052	< 0.001	< 0.0005	< 0.0050	< 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	0.00059	NA	< 0.0012	< 0.0005	0.035	< 0.0002	0.02	0.626	0.012	< 0.002
	5/12/2021	1.3	180	180	0.54	6.97	520	1500	< 0.003	0.0048	0.065	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.026	< 0.0002	0.014	< 0.648	0.0071	< 0.002
	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	0.026	< 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	< 0.0010	< 0.0005	^1+ 0.028	< 0.0002	0.018	< 0.511	0.009	< 0.002
11/29/2021	1.9	230	240	0.5	6.71	^ 450	1700	< 0.003	0.0031	0.074	< 0.001	< 0.0005	< 0.0050	< 0.0010	< 0.0005	0.024	< 0.0002	0.016	< 0.353	0.055	< 0.002	
2/9/2022	0.84	140	160	< 0.003	6.91	320	1200	< 0.003	0.0075	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.023	< 0.0002	0.014	< 0.51	0.0025	< 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	< 0.003	7.02	700	1800	< 0.003	0.32	0.12	< 0.001	< 0.0005	< 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										

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Metal 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
	11/30/2021	5.51
	1/6/2022	16.87
2/9/2022	1.99	
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
2/7/2022	9.38	
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/30/2021	8.86
2/9/2022	11.19	
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
	11/29/2021	12.29
2/9/2022	8.66	
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
	11/29/2021	8.35
2/8/2022	76.4	
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
	11/29/2021	20.2
3/1/2022	7.64	

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-211998-1  
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:  
3/1/2022 3:15:02 PM

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

### LINKS

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

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Method Summary . . . . .	4
Sample Summary . . . . .	5
Client Sample Results . . . . .	6
Definitions . . . . .	10
QC Association . . . . .	11
QC Sample Results . . . . .	14
Chain of Custody . . . . .	17
Receipt Checklists . . . . .	23
Chronicle . . . . .	24
Certification Summary . . . . .	27

# Case Narrative

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

Job ID: 500-211998-1

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**Job ID: 500-211998-1**

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**Laboratory: Eurofins Chicago**

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**Narrative**

**Job Narrative  
500-211998-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/8/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were -1.4° C, -0.1° C, 0.3° C and 0.8° C.

**Metals**

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

**General Chemistry**

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

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

# Method Summary

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

Job ID: 500-211998-1

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

#### Protocol References:

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

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

#### Laboratory References:

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



# Sample Summary

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

Job ID: 500-211998-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-211998-1	MW-17	Water	02/07/22 14:58	02/08/22 16:15
500-211998-2	MW-20	Water	02/08/22 09:53	02/09/22 16:05
500-211998-3	MW-15	Water	02/09/22 10:56	02/10/22 13:55
500-211998-4	MW-14	Water	02/09/22 09:27	02/10/22 13:55
500-211998-5	Duplicate	Water	02/09/22 00:00	02/10/22 13:55
500-211998-6	MW-13	Water	02/09/22 12:30	02/10/22 13:55

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# Client Sample Results

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

Job ID: 500-211998-1

**Client Sample ID: MW-17**

**Lab Sample ID: 500-211998-1**

Date Collected: 02/07/22 14:58

Matrix: Water

Date Received: 02/08/22 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:32	1
<b>Arsenic</b>	<b>0.0079</b>		0.0010		mg/L		02/18/22 10:48	02/19/22 00:32	1
<b>Barium</b>	<b>0.027</b>		0.0025		mg/L		02/18/22 10:48	02/19/22 00:32	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:32	1
<b>Boron</b>	<b>0.99</b>		0.25		mg/L		02/18/22 10:48	02/21/22 14:40	5
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:32	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		02/18/22 10:48	02/19/22 00:32	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:32	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:32	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:32	1
<b>Lithium</b>	<b>0.016</b>		0.0020		mg/L		02/18/22 10:48	02/19/22 00:32	1
<b>Molybdenum</b>	<b>0.037</b>		0.0050		mg/L		02/18/22 10:48	02/19/22 00:32	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:32	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/22 11:00	02/22/22 09:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1300</b>		10		mg/L			02/09/22 04:25	1
<b>Chloride</b>	<b>160</b>		10		mg/L			02/28/22 13:29	5
<b>Fluoride</b>	<b>0.78</b>		0.10		mg/L			02/15/22 18:29	1
<b>Sulfate</b>	<b>450</b>		50		mg/L			02/22/22 20:29	10

**Client Sample ID: MW-20**

**Lab Sample ID: 500-211998-2**

Date Collected: 02/08/22 09:53

Matrix: Water

Date Received: 02/09/22 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:35	1
<b>Arsenic</b>	<b>0.0098</b>		0.0010		mg/L		02/18/22 10:48	02/19/22 00:35	1
<b>Barium</b>	<b>0.16</b>		0.0025		mg/L		02/18/22 10:48	02/19/22 00:35	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:35	1
<b>Boron</b>	<b>1.9</b>		0.25		mg/L		02/18/22 10:48	02/21/22 14:44	5
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:35	1
<b>Calcium</b>	<b>220</b>		0.20		mg/L		02/18/22 10:48	02/19/22 00:35	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:35	1
<b>Cobalt</b>	<b>0.0013</b>		0.0010		mg/L		02/18/22 10:48	02/19/22 00:35	1
<b>Lead</b>	<b>0.00089</b>		0.00050		mg/L		02/18/22 10:48	02/19/22 00:35	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:35	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:35	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:35	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/22 11:00	02/22/22 09:32	1

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# Client Sample Results

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

Job ID: 500-211998-1

**Client Sample ID: MW-20**  
Date Collected: 02/08/22 09:53  
Date Received: 02/09/22 16:05

**Lab Sample ID: 500-211998-2**  
Matrix: Water

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			02/10/22 04:58	1
Chloride	110		10		mg/L			02/28/22 13:29	5
Fluoride	0.17		0.10		mg/L			02/15/22 18:34	1
Sulfate	440		50		mg/L			02/22/22 20:30	10

**Client Sample ID: MW-15**  
Date Collected: 02/09/22 10:56  
Date Received: 02/10/22 13:55

**Lab Sample ID: 500-211998-3**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:39	1
Arsenic	0.0075		0.0010		mg/L		02/18/22 10:48	02/19/22 00:39	1
Barium	0.054		0.0025		mg/L		02/18/22 10:48	02/19/22 00:39	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:39	1
Boron	0.84		0.10		mg/L		02/18/22 10:48	02/21/22 14:47	2
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:39	1
Calcium	140		0.20		mg/L		02/18/22 10:48	02/19/22 00:39	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:39	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:39	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:39	1
Lithium	0.023		0.0020		mg/L		02/18/22 10:48	02/19/22 00:39	1
Molybdenum	0.014		0.0050		mg/L		02/18/22 10:48	02/19/22 00:39	1
Selenium	0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:39	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:39	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/22 11:00	02/22/22 09:34	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			02/11/22 04:50	1
Chloride	160		12		mg/L			02/28/22 13:30	6
Fluoride	0.58		0.10		mg/L			02/15/22 18:50	1
Sulfate	320		50		mg/L			02/22/22 20:30	10

**Client Sample ID: MW-14**  
Date Collected: 02/09/22 09:27  
Date Received: 02/10/22 13:55

**Lab Sample ID: 500-211998-4**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:42	1
Arsenic	0.013		0.0010		mg/L		02/18/22 10:48	02/19/22 00:42	1
Barium	0.046		0.0025		mg/L		02/18/22 10:48	02/19/22 00:42	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:42	1
Boron	1.9		0.25		mg/L		02/18/22 10:48	02/21/22 14:51	5
Cadmium	0.00056		0.00050		mg/L		02/18/22 10:48	02/19/22 00:42	1
Calcium	180		0.20		mg/L		02/18/22 10:48	02/19/22 00:42	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:42	1

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# Client Sample Results

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

Job ID: 500-211998-1

**Client Sample ID: MW-14**  
Date Collected: 02/09/22 09:27  
Date Received: 02/10/22 13:55

**Lab Sample ID: 500-211998-4**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:42	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:42	1
<b>Lithium</b>	<b>0.026</b>		0.0020		mg/L		02/18/22 10:48	02/19/22 00:42	1
<b>Molybdenum</b>	<b>0.030</b>		0.0050		mg/L		02/18/22 10:48	02/19/22 00:42	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:42	1
<b>Thallium</b>	<b>0.0022</b>		0.0020		mg/L		02/18/22 10:48	02/19/22 00:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/22 11:00	02/22/22 09:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1500</b>		10		mg/L			02/11/22 04:53	1
<b>Chloride</b>	<b>67</b>		4.0		mg/L			02/28/22 13:30	2
<b>Fluoride</b>	<b>1.1</b>		0.10		mg/L			02/15/22 18:55	1
<b>Sulfate</b>	<b>430</b>		50		mg/L			02/22/22 20:30	10

**Client Sample ID: Duplicate**

Date Collected: 02/09/22 00:00  
Date Received: 02/10/22 13:55

**Lab Sample ID: 500-211998-5**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:46	1
<b>Arsenic</b>	<b>0.0096</b>		0.0010		mg/L		02/18/22 10:48	02/19/22 00:46	1
<b>Barium</b>	<b>0.053</b>		0.0025		mg/L		02/18/22 10:48	02/19/22 00:46	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:46	1
<b>Boron</b>	<b>0.88</b>		0.10		mg/L		02/18/22 10:48	02/21/22 14:54	2
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:46	1
<b>Calcium</b>	<b>140</b>		0.20		mg/L		02/18/22 10:48	02/19/22 00:46	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:46	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:46	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:46	1
<b>Lithium</b>	<b>0.023</b>		0.0020		mg/L		02/18/22 10:48	02/19/22 00:46	1
<b>Molybdenum</b>	<b>0.016</b>		0.0050		mg/L		02/18/22 10:48	02/19/22 00:46	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:46	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/22 11:00	02/22/22 09:38	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>1200</b>		10		mg/L			02/11/22 04:55	1
<b>Chloride</b>	<b>150</b>		10		mg/L			02/28/22 13:51	5
<b>Fluoride</b>	<b>0.59</b>		0.10		mg/L			02/15/22 18:59	1
<b>Sulfate</b>	<b>310</b>		50		mg/L			02/22/22 20:31	10

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# Client Sample Results

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

Job ID: 500-211998-1

**Client Sample ID: MW-13**  
Date Collected: 02/09/22 12:30  
Date Received: 02/10/22 13:55

**Lab Sample ID: 500-211998-6**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:48	02/19/22 00:49	1
<b>Arsenic</b>	<b>0.026</b>		0.0010		mg/L		02/18/22 10:48	02/19/22 00:49	1
<b>Barium</b>	<b>0.25</b>		0.0025		mg/L		02/18/22 10:48	02/19/22 00:49	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:49	1
<b>Boron</b>	<b>2.8</b>		0.50		mg/L		02/18/22 10:48	02/21/22 15:04	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:48	02/19/22 00:49	1
<b>Calcium</b>	<b>310</b>		2.0		mg/L		02/18/22 10:48	02/21/22 15:04	10
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:48	02/19/22 00:49	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:48	02/19/22 00:49	1
<b>Lead</b>	<b>0.00061</b>		0.00050		mg/L		02/18/22 10:48	02/19/22 00:49	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:49	1
<b>Molybdenum</b>	<b>0.020</b>		0.0050		mg/L		02/18/22 10:48	02/19/22 00:49	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:48	02/19/22 00:49	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:48	02/19/22 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/22 11:00	02/22/22 09:40	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>2200</b>		10		mg/L			02/11/22 04:58	1
<b>Chloride</b>	<b>120</b>		10		mg/L			02/28/22 13:51	5
<b>Fluoride</b>	<b>0.41</b>		0.10		mg/L			02/15/22 19:06	1
<b>Sulfate</b>	<b>1000</b>		250		mg/L			02/22/22 20:42	50

# Definitions/Glossary

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

Job ID: 500-211998-1

## Glossary

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

# QC Association Summary

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

Job ID: 500-211998-1

## Metals

### Prep Batch: 643201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total Recoverable	Water	3005A	
500-211998-2	MW-20	Total Recoverable	Water	3005A	
500-211998-3	MW-15	Total Recoverable	Water	3005A	
500-211998-4	MW-14	Total Recoverable	Water	3005A	
500-211998-5	Duplicate	Total Recoverable	Water	3005A	
500-211998-6	MW-13	Total Recoverable	Water	3005A	
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 643537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total Recoverable	Water	6020A	643201
500-211998-2	MW-20	Total Recoverable	Water	6020A	643201
500-211998-3	MW-15	Total Recoverable	Water	6020A	643201
500-211998-4	MW-14	Total Recoverable	Water	6020A	643201
500-211998-5	Duplicate	Total Recoverable	Water	6020A	643201
500-211998-6	MW-13	Total Recoverable	Water	6020A	643201
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	6020A	643201
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643201

### Prep Batch: 643561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total/NA	Water	7470A	
500-211998-2	MW-20	Total/NA	Water	7470A	
500-211998-3	MW-15	Total/NA	Water	7470A	
500-211998-4	MW-14	Total/NA	Water	7470A	
500-211998-5	Duplicate	Total/NA	Water	7470A	
500-211998-6	MW-13	Total/NA	Water	7470A	
MB 500-643561/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-643561/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 643796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total Recoverable	Water	6020A	643201
500-211998-2	MW-20	Total Recoverable	Water	6020A	643201
500-211998-3	MW-15	Total Recoverable	Water	6020A	643201
500-211998-4	MW-14	Total Recoverable	Water	6020A	643201
500-211998-5	Duplicate	Total Recoverable	Water	6020A	643201
500-211998-6	MW-13	Total Recoverable	Water	6020A	643201
MB 500-643201/1-A	Method Blank	Total Recoverable	Water	6020A	643201
LCS 500-643201/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643201

### Analysis Batch: 643844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total/NA	Water	7470A	643561
500-211998-2	MW-20	Total/NA	Water	7470A	643561
500-211998-3	MW-15	Total/NA	Water	7470A	643561
500-211998-4	MW-14	Total/NA	Water	7470A	643561
500-211998-5	Duplicate	Total/NA	Water	7470A	643561
500-211998-6	MW-13	Total/NA	Water	7470A	643561
MB 500-643561/12-A	Method Blank	Total/NA	Water	7470A	643561

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# QC Association Summary

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

Job ID: 500-211998-1

## Metals (Continued)

### Analysis Batch: 643844 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-643561/13-A	Lab Control Sample	Total/NA	Water	7470A	643561

## General Chemistry

### Analysis Batch: 641481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total/NA	Water	SM 2540C	
MB 500-641481/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641481/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 641700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-2	MW-20	Total/NA	Water	SM 2540C	
MB 500-641700/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641700/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 641914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-3	MW-15	Total/NA	Water	SM 2540C	
500-211998-4	MW-14	Total/NA	Water	SM 2540C	
500-211998-5	Duplicate	Total/NA	Water	SM 2540C	
500-211998-6	MW-13	Total/NA	Water	SM 2540C	
MB 500-641914/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641914/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 642706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total/NA	Water	SM 4500 F C	
500-211998-2	MW-20	Total/NA	Water	SM 4500 F C	
500-211998-3	MW-15	Total/NA	Water	SM 4500 F C	
500-211998-4	MW-14	Total/NA	Water	SM 4500 F C	
500-211998-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-211998-6	MW-13	Total/NA	Water	SM 4500 F C	
MB 500-642706/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-642706/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 644037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-211998-2	MW-20	Total/NA	Water	SM 4500 SO4 E	
500-211998-3	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-211998-4	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-211998-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-211998-6	MW-13	Total/NA	Water	SM 4500 SO4 E	
MB 500-644037/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-644037/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 644868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total/NA	Water	SM 4500 CI- E	
500-211998-2	MW-20	Total/NA	Water	SM 4500 CI- E	

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# QC Association Summary

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

Job ID: 500-211998-1

## General Chemistry (Continued)

### Analysis Batch: 644868 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-3	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-211998-4	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-211998-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-211998-6	MW-13	Total/NA	Water	SM 4500 Cl- E	
MB 500-644868/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-644868/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

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

# QC Sample Results

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

Job ID: 500-211998-1

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

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

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

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

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

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

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

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

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

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

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

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

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

# QC Sample Results

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

Job ID: 500-211998-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-643561/12-A**  
**Matrix: Water**  
**Analysis Batch: 643844**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 643561**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/21/22 11:00	02/22/22 09:03	1

**Lab Sample ID: LCS 500-643561/13-A**  
**Matrix: Water**  
**Analysis Batch: 643844**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 643561**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00202		mg/L		101	80 - 120

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

**Lab Sample ID: MB 500-641481/1**  
**Matrix: Water**  
**Analysis Batch: 641481**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/09/22 03:31	1

**Lab Sample ID: LCS 500-641481/2**  
**Matrix: Water**  
**Analysis Batch: 641481**

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

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

**Lab Sample ID: MB 500-641700/1**  
**Matrix: Water**  
**Analysis Batch: 641700**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/10/22 04:35	1

**Lab Sample ID: LCS 500-641700/2**  
**Matrix: Water**  
**Analysis Batch: 641700**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	266		mg/L		106	80 - 120

**Lab Sample ID: MB 500-641914/1**  
**Matrix: Water**  
**Analysis Batch: 641914**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/11/22 04:22	1

# QC Sample Results

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

Job ID: 500-211998-1

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

Lab Sample ID: LCS 500-641914/2  
Matrix: Water  
Analysis Batch: 641914

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	272		mg/L		109	80 - 120

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

Lab Sample ID: MB 500-644868/16  
Matrix: Water  
Analysis Batch: 644868

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			02/28/22 13:28	1

Lab Sample ID: LCS 500-644868/17  
Matrix: Water  
Analysis Batch: 644868

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	20.4		mg/L		102	85 - 115

## Method: SM 4500 F C - Fluoride

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

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/15/22 16:44	1

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

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

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

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

Lab Sample ID: MB 500-644037/15  
Matrix: Water  
Analysis Batch: 644037

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			02/22/22 20:06	1

Lab Sample ID: LCS 500-644037/16  
Matrix: Water  
Analysis Batch: 644037

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	20.9		mg/L		105	88 - 123

Eurofins Chicago







**Eurofins Chicago**

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

**Chain of Custody Record**

<b>Client Information</b>		Sampler:		Lab PM: Mockler, Diana J		Carrier: <i>Tenneco Refrac</i>		COC No: 500-98565-43260 1	
Client Contact: Mitchel Dolan		Phone:		E-Mail: Diana Mockler@Eurofinset.com		Stat:		Page: Page 1 of 1	
Company: KPRG and Associates, Inc.		PWSID:		<b>Analysis Reque</b>		500-211998 COC		Job #: <u>500-211998</u> <b>Preservation Codes:</b> 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)	
Address: 414 Plaza Drive Suite 106		Due Date Requested:							
City: Westmont		TAT Requested (days):		Field Filtered Sample (Yes or No) Perform WSI/SDI (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		Total Number of Containers		Special Instructions/Note:	
State, Zip: IL, 60559		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone: 262-781-0475(Tel)		PO #: 4502081030		BT=Tissue, A=Air		Preservation Code:		N D D D D	
Email: mitcheld@kprginc.com		WO #:							
Project Name: Powerton CCR MCB		Project #: 50018578		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil)		Sample Date      Sample Time	
Site:		SSOW#:							
<b>Sample Identification</b>									
3 MW-15		2/9 10:56		G		Water			
4 MW-14		2/9 9:27		G		Water			
MW-17						Water			
MW-20						Water			
MW-21						Water			
Duplicate						Water			
<del>MW-13</del>						Water			
<b>Possible Hazard Identification</b>					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>M. Hess</i>		Date/Time: 2/9 16:00		Company: <i>KPRG</i>		Received by: <i>Stephanie Hernandez</i>		Date/Time: 2/10/22 1355	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: <u>1739226</u>		Cooler Temperature(s) °C and Other Remarks: <u>0.4 → -0.1</u>					



**Eurofins Chicago**

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

**Chain of Custody Record**



Environment Testing  
 America

<b>Client Information</b>		Sampler: <u>M. Hess</u>	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500-98565-43260 1	
Client Contact: Mitchel Dolan		Phone: <u>630.203.7240</u>	E-Mail: Diana Mockler@Eurofinset.com	State of Origin:	Page 1 of 1	
Company: KPRG and Associates Inc		PWSID:	<b>Analysis Requested</b>		Job #: <u>500-211998</u>	
Address: 414 Plaza Drive Suite 106		Due Date Requested:	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 2540C, 4500_F_C, SM4500_CL_E, SM4500_S04_E 903.0 - Radium 226 904.0 - Radium 228 Ra226Ra228_GFPC - Rad Combined 6010C, 6020A, 7470A		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: Westmont		TAT Requested (days):				
State Zip: IL 60559		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No				
Phone: 262-781-0475(Tel)		PO #: 4502081030				
Email: mitcheld@kprginc.com		WO #:				
Project Name: Powerton CCR MCB		Project #: 50018578	Total Number of containers:		Special Instructions/Note	
Site:		SSOW#:				
<b>Sample Identification</b>	<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</b>		
					N	D
MW-15				Water		
MW-14				Water		
MW-17				Water		
MW-20				Water		
MW-21				Water		
5 Duplicate	2/9		G	Water	X	X
6 MW-13	2/9	12:30	G	Water	X	X
<b>Possible Hazard Identification</b>			<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)			Special Instructions/QC Requirements			
Empty Kit Relinquished by:		Date	Time	Method of Shipment:		
Relinquished by: <u>M. Hess</u>		Date/Time: <u>2/9 16:00</u>	Company: <u>KPRG</u>	Received by: <u>Stephanie Hemminger</u>		Date/Time: <u>2/10/22 1355</u>
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No: <u>1802041</u>	Cooler Temperature(s) °C and Other Remarks: <u>-0.9 to -1.4</u>				







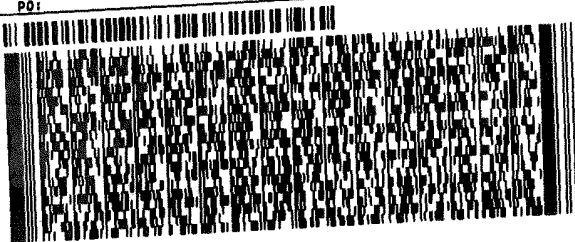
ORIGIN ID:PIAA (000) 000-0000  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

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

TO **SAMPLE RECEIVING  
EUROFINS  
2417 BOND ST**

**UNIVERSITY PARK IL 60484**

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



3 of 3  
MPS# 2896 6850 2797  
0263  
Metr# 2896 6850 2775

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

**4Z QMCKQ**

60484  
IL-US ORD



Part # 156297-435

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

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

Part # 156297-435

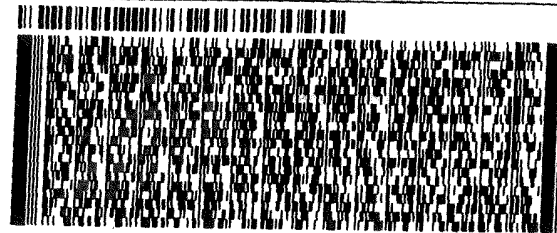
TO **SAMPLE RECEIVING  
EUROFINS  
2417 BOND ST**



500-211998 Wayb

**UNIVERSITY PARK IL 60484**

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



2 of 3  
MPS# 2896 6850 2786  
0263  
Metr# 2896 6850 2775

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

**4Z QMCKQ**

60484  
IL-US ORD



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-1

**Login Number: 211998**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3,0.8,-0.1,-1.4 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Lab Chronicle

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

Job ID: 500-211998-1

**Client Sample ID: MW-17**

**Date Collected: 02/07/22 14:58**

**Date Received: 02/08/22 16:15**

**Lab Sample ID: 500-211998-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:32	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		5	643796	02/21/22 14:40	FXG	TAL CHI
Total/NA	Prep	7470A			643561	02/21/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	643844	02/22/22 09:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641481	02/09/22 04:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:29	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:29	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644037	02/22/22 20:29	PFK	TAL CHI

**Client Sample ID: MW-20**

**Date Collected: 02/08/22 09:53**

**Date Received: 02/09/22 16:05**

**Lab Sample ID: 500-211998-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:35	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		5	643796	02/21/22 14:44	FXG	TAL CHI
Total/NA	Prep	7470A			643561	02/21/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	643844	02/22/22 09:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641700	02/10/22 04:58	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:29	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:34	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644037	02/22/22 20:30	PFK	TAL CHI

**Client Sample ID: MW-15**

**Date Collected: 02/09/22 10:56**

**Date Received: 02/10/22 13:55**

**Lab Sample ID: 500-211998-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:39	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		2	643796	02/21/22 14:47	FXG	TAL CHI
Total/NA	Prep	7470A			643561	02/21/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	643844	02/22/22 09:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641914	02/11/22 04:50	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		6	644868	02/28/22 13:30	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:50	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644037	02/22/22 20:30	PFK	TAL CHI

# Lab Chronicle

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

Job ID: 500-211998-1

**Client Sample ID: MW-14**  
**Date Collected: 02/09/22 09:27**  
**Date Received: 02/10/22 13:55**

**Lab Sample ID: 500-211998-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:42	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		5	643796	02/21/22 14:51	FXG	TAL CHI
Total/NA	Prep	7470A			643561	02/21/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	643844	02/22/22 09:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641914	02/11/22 04:53	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	644868	02/28/22 13:30	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:55	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644037	02/22/22 20:30	PFK	TAL CHI

**Client Sample ID: Duplicate**  
**Date Collected: 02/09/22 00:00**  
**Date Received: 02/10/22 13:55**

**Lab Sample ID: 500-211998-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:46	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		2	643796	02/21/22 14:54	FXG	TAL CHI
Total/NA	Prep	7470A			643561	02/21/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	643844	02/22/22 09:38	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641914	02/11/22 04:55	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:51	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:59	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	644037	02/22/22 20:31	PFK	TAL CHI

**Client Sample ID: MW-13**  
**Date Collected: 02/09/22 12:30**  
**Date Received: 02/10/22 13:55**

**Lab Sample ID: 500-211998-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/19/22 00:49	FXG	TAL CHI
Total Recoverable	Prep	3005A			643201	02/18/22 10:48		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 15:04	FXG	TAL CHI
Total/NA	Prep	7470A			643561	02/21/22 11:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	643844	02/22/22 09:40	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641914	02/11/22 04:58	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	644868	02/28/22 13:51	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 19:06	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	644037	02/22/22 20:42	PFK	TAL CHI

# Lab Chronicle

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

Job ID: 500-211998-1

**Laboratory References:**

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

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# Accreditation/Certification Summary

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

Job ID: 500-211998-1

## Laboratory: Eurofins Chicago

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

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

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## ANALYTICAL REPORT

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

Laboratory Job ID: 500-211998-2  
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:  
3/15/2022 8:41:45 AM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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

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





# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Method Summary . . . . .	4
Sample Summary . . . . .	5
Client Sample Results . . . . .	6
Definitions . . . . .	10
QC Association . . . . .	11
QC Sample Results . . . . .	12
Chain of Custody . . . . .	14
Receipt Checklists . . . . .	24
Chronicle . . . . .	28
Certification Summary . . . . .	30
Tracer Carrier Summary . . . . .	31

# Case Narrative

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

Job ID: 500-211998-2

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## Job ID: 500-211998-2

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### Laboratory: Eurofins Chicago

#### Narrative

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#### Job Narrative 500-211998-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 2/8/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were -1.4° C, -0.1° C, 0.3° C, 0.3° C and 0.8° C.

#### RAD

Methods 903.0, 9315: Radium 226 batch 550803

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

MW-17 (500-211998-1), MW-20 (500-211998-2), MW-15 (500-211998-3), MW-14 (500-211998-4), Duplicate (500-211998-5), MW-13 (500-211998-6), (LCS 160-550803/1-A), (MB 160-550803/20-A) and (500-211998-D-1-A DU)

Methods 904.0, 9320: Radium 228 batch 550806

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

MW-17 (500-211998-1), MW-20 (500-211998-2), MW-15 (500-211998-3), MW-14 (500-211998-4), Duplicate (500-211998-5), MW-13 (500-211998-6), (LCS 160-550806/1-A), (MB 160-550806/20-A) and (500-211998-D-1-B DU)

Method PrecSep\_0:

Method PrecSep-21:

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

# Method Summary

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

Job ID: 500-211998-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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

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- 11
- 12
- 13
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# Sample Summary

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

Job ID: 500-211998-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-211998-1	MW-17	Water	02/07/22 14:58	02/08/22 16:15
500-211998-2	MW-20	Water	02/08/22 09:53	02/09/22 16:05
500-211998-3	MW-15	Water	02/09/22 10:56	02/10/22 13:55
500-211998-4	MW-14	Water	02/09/22 09:27	02/10/22 13:55
500-211998-5	Duplicate	Water	02/09/22 00:00	02/10/22 13:55
500-211998-6	MW-13	Water	02/09/22 12:30	02/10/22 13:55

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- 2
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# Client Sample Results

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

Job ID: 500-211998-2

**Client Sample ID: MW-17**

**Lab Sample ID: 500-211998-1**

Date Collected: 02/07/22 14:58

Matrix: Water

Date Received: 02/08/22 16:15

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.115	U	0.0714	0.0717	1.00	0.115	pCi/L	02/16/22 13:27	03/11/22 09:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/16/22 13:27	03/11/22 09:45	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	0.461		0.296	0.299	1.00	0.455	pCi/L	02/16/22 13:53	03/02/22 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	84.1		40 - 110					02/16/22 13:53	03/02/22 13:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.525		0.304	0.307	5.00	0.455	pCi/L		03/14/22 18:04	1

**Client Sample ID: MW-20**

**Lab Sample ID: 500-211998-2**

Date Collected: 02/08/22 09:53

Matrix: Water

Date Received: 02/09/22 16:05

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.191		0.111	0.112	1.00	0.135	pCi/L	02/16/22 13:27	03/11/22 09:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					02/16/22 13:27	03/11/22 09:45	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	<0.607	U	0.371	0.372	1.00	0.607	pCi/L	02/16/22 13:53	03/02/22 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	85.2		40 - 110					02/16/22 13:53	03/02/22 13:52	1

# Client Sample Results

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

Job ID: 500-211998-2

## Client Sample ID: MW-20

Date Collected: 02/08/22 09:53

Date Received: 02/09/22 16:05

## Lab Sample ID: 500-211998-2

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	<0.607	U	0.387	0.388	5.00	0.607	pCi/L		03/14/22 18:04	1

## Client Sample ID: MW-15

Date Collected: 02/09/22 10:56

Date Received: 02/10/22 13:55

## Lab Sample ID: 500-211998-3

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	<0.140	U	0.0900	0.0904	1.00	0.140	pCi/L	02/16/22 13:27	03/11/22 09:43	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	75.1		40 - 110					02/16/22 13:27	03/11/22 09:43	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	<0.510	U	0.321	0.323	1.00	0.510	pCi/L	02/16/22 13:53	03/02/22 13:52	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	75.1		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	85.2		40 - 110					02/16/22 13:53	03/02/22 13:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.510	U	0.333	0.335	5.00	0.510	pCi/L		03/14/22 18:04	1

## Client Sample ID: MW-14

Date Collected: 02/09/22 09:27

Date Received: 02/10/22 13:55

## Lab Sample ID: 500-211998-4

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	0.392		0.139	0.144	1.00	0.158	pCi/L	02/16/22 13:27	03/11/22 09:44	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	82.3		40 - 110					02/16/22 13:27	03/11/22 09:44	1

# Client Sample Results

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

Job ID: 500-211998-2

**Client Sample ID: MW-14**  
**Date Collected: 02/09/22 09:27**  
**Date Received: 02/10/22 13:55**

**Lab Sample ID: 500-211998-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.462	U	0.289	0.290	1.00	0.462	pCi/L	02/16/22 13:53	03/02/22 13:52	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	82.3		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	82.6		40 - 110					02/16/22 13:53	03/02/22 13:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.724		0.321	0.324	5.00	0.462	pCi/L		03/14/22 18:04	1

**Client Sample ID: Duplicate**  
**Date Collected: 02/09/22 00:00**  
**Date Received: 02/10/22 13:55**

**Lab Sample ID: 500-211998-5**  
**Matrix: Water**

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125		0.0822	0.0830	1.00	0.113	pCi/L	02/16/22 13:27	03/11/22 11:50	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	91.3		40 - 110					02/16/22 13:27	03/11/22 11:50	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	<0.377	U	0.225	0.226	1.00	0.377	pCi/L	02/16/22 13:53	03/02/22 13:52	1
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>					<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Ba Carrier	91.3		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	84.9		40 - 110					02/16/22 13:53	03/02/22 13:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.377	U	0.240	0.241	5.00	0.377	pCi/L		03/14/22 18:04	1

# Client Sample Results

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

Job ID: 500-211998-2

**Client Sample ID: MW-13**  
Date Collected: 02/09/22 12:30  
Date Received: 02/10/22 13:55

**Lab Sample ID: 500-211998-6**  
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	<0.184	U	0.116	0.116	1.00	0.184	pCi/L	02/16/22 13:27	03/11/22 11:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		40 - 110					02/16/22 13:27	03/11/22 11:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.22		0.520	0.532	1.00	0.752	pCi/L	02/16/22 13:53	03/02/22 13:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.6		40 - 110					02/16/22 13:53	03/02/22 13:52	1
Y Carrier	86.0		40 - 110					02/16/22 13:53	03/02/22 13:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.34		0.533	0.544	5.00	0.752	pCi/L		03/14/22 18:04	1



# Definitions/Glossary

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

Job ID: 500-211998-2

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-211998-2

## Rad

### Prep Batch: 550803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total/NA	Water	PrecSep-21	
500-211998-2	MW-20	Total/NA	Water	PrecSep-21	
500-211998-3	MW-15	Total/NA	Water	PrecSep-21	
500-211998-4	MW-14	Total/NA	Water	PrecSep-21	
500-211998-5	Duplicate	Total/NA	Water	PrecSep-21	
500-211998-6	MW-13	Total/NA	Water	PrecSep-21	
MB 160-550803/20-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-550803/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-211998-1 DU	MW-17	Total/NA	Water	PrecSep-21	

### Prep Batch: 550806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-1	MW-17	Total/NA	Water	PrecSep_0	
500-211998-2	MW-20	Total/NA	Water	PrecSep_0	
500-211998-3	MW-15	Total/NA	Water	PrecSep_0	
500-211998-4	MW-14	Total/NA	Water	PrecSep_0	
500-211998-5	Duplicate	Total/NA	Water	PrecSep_0	
500-211998-6	MW-13	Total/NA	Water	PrecSep_0	
MB 160-550806/20-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-550806/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-211998-1 DU	MW-17	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-211998-2

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

**Lab Sample ID: MB 160-550803/20-A**  
**Matrix: Water**  
**Analysis Batch: 554763**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 550803**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.105	U	0.0619	0.0620	1.00	0.105	pCi/L	02/16/22 13:27	03/11/22 13:37	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	93.0		40 - 110			02/16/22 13:27	03/11/22 13:37	1		

**Lab Sample ID: LCS 160-550803/1-A**  
**Matrix: Water**  
**Analysis Batch: 554763**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 550803**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.35		1.29	1.00	0.123	pCi/L	109	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	95.0		40 - 110						

**Lab Sample ID: 500-211998-1 DU**  
**Matrix: Water**  
**Analysis Batch: 554763**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**  
**Prep Batch: 550803**

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	<0.115	U	<0.126	U	0.0806	1.00	0.126	pCi/L	0.10	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	74.8		40 - 110							

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

**Lab Sample ID: MB 160-550806/20-A**  
**Matrix: Water**  
**Analysis Batch: 553105**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 550806**

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.355	U	0.196	0.196	1.00	0.355	pCi/L	02/16/22 13:53	03/02/22 13:55	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	93.0		40 - 110			02/16/22 13:53	03/02/22 13:55	1		
Y Carrier	88.2		40 - 110			02/16/22 13:53	03/02/22 13:55	1		

# QC Sample Results

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

Job ID: 500-211998-2

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

**Lab Sample ID: LCS 160-550806/1-A**  
**Matrix: Water**  
**Analysis Batch: 552954**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 550806**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits																	
Radium-228	8.83	9.043		1.06	1.00	0.374	pCi/L	102	75 - 125																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">LCS</th> <th colspan="2">LCS</th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>95.0</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>87.9</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>											LCS		LCS		Carrier	%Yield	Qualifier	Limits	Ba Carrier	95.0		40 - 110	Y Carrier	87.9		40 - 110
LCS		LCS																								
Carrier	%Yield	Qualifier	Limits																							
Ba Carrier	95.0		40 - 110																							
Y Carrier	87.9		40 - 110																							

**Lab Sample ID: 500-211998-1 DU**  
**Matrix: Water**  
**Analysis Batch: 552954**

**Client Sample ID: MW-17**  
**Prep Type: Total/NA**  
**Prep Batch: 550806**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit																
										1																
Radium-228	0.461		0.4555		0.295	1.00	0.445	pCi/L	0.01	1																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">DU</th> <th colspan="2">DU</th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>74.8</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>86.4</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>											DU		DU		Carrier	%Yield	Qualifier	Limits	Ba Carrier	74.8		40 - 110	Y Carrier	86.4		40 - 110
DU		DU																								
Carrier	%Yield	Qualifier	Limits																							
Ba Carrier	74.8		40 - 110																							
Y Carrier	86.4		40 - 110																							







**Eurofins Chicago**

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

**Chain of Custody Record**

<b>Client Information</b>		Sampler:		Lab PM: Mockler, Diana J		Carrier: <i>Tenneco Mfg.</i>		COC No: 500-98565-43260 1			
Client Contact: Mitchel Dolan		Phone:		E-Mail: Diana Mockler@Eurofinset.com		Stat:		Page: Page 1 of 1			
Company: KPRG and Associates, Inc.		PWSID:		<b>Analysis Reque</b>		500-211998 COC		Job #: <u>500-211998</u> <b>Preservation Codes:</b> 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)			
Address: 414 Plaza Drive Suite 106		Due Date Requested:									
City: Westmont		TAT Requested (days):		Field Filtered Sample (Yes or No) Perform WSI/SDI (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		Total Number of containers		Special Instructions/Note:			
State, Zip: IL, 60559		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: 262-781-0475(Tel)		PO #: 4502081030									
Email: mitcheld@kprginc.com		WO #:									
Project Name: Powerton CCR MCB		Project #: 50018578									
Site:		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)						
				Preservation Code:		N	D	D	D	D	
3 4	MW-15	2/9	10:56	G	Water		X	X	X	X	
	MW-14	2/9	9:27	G	Water		X	X	X	X	
	MW-17				Water						
	MW-20				Water						
	MW-21				Water						
	Duplicate				Water						
	<del>MW-13</del>				Water						
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by:			Date		Time		Method of Shipment:				
Relinquished by: <i>M. Hess</i>			Date/Time: 2/9 16:00		Company: <i>KPRG</i>		Received by: <i>Stephanie Hernandez</i>		Date/Time: 2/10/22 13:55		Company: <i>EEI/A</i>
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>1739226</u>				Cooler Temperature(s) °C and Other Remarks: <u>0.4 → -0.1</u>					






**Eurofins Chicago**

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

**Chain of Custody Record**

**eurofins** Environment Testing  
America

<b>Client Information</b>		Sampler: <u>M. Press</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s):		COC No 500-99019-43377 1					
Client Contact: Mitchel Dolan		Phone: <u>630.203.7240</u>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin:		Page Page 1 of 1					
Company: KPRG and Associates Inc.		PWSID		<b>Analysis Reque:</b>  500-211998 COC		Job #: <u>500-211998</u>		<b>Preservation Codes</b> 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:					
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested											
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 # 4502081030											
Email mitcheld@kprginc.com		WO #		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers					
Project Name Powerton CCR MCB		Project # 50018578		2540C 4500_F_C SM4500_CI_E SM4500_SO4_E		903.0 - Radium 226							
Site		SSOW#		904.0 - Radium 228		Ra226Ra228_GFPC - Rad Combined		6010C, 6020A 7470A					
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Preservation Code:		Special Instructions/Note	
7 MW-21		3/1/22		10 10		G		Water		N D D D D			
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>M. Press</u>		Date/Time: <u>3/1/22 1:05</u>		Company: <u>KPRG</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>3/1/22 1505</u>		Company: <u>ETA</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		Cooler Temperature(s) °C and Other Remarks		0.8 → 0.5 0.3							

ORIGIN ID:PIAA (555) 555-5555  
MITCH DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA OR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 07FEB22  
ACTWGT: 57.50 LB  
CAD: 6994780/SSFE2220  
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 158297-438  
SHIP DATE: 07FEB22  
EXP 11/22



500-211998 Wayb

TO TESTAMERICA CHICAGO  
TESTAMERICA CHICAGO  
2417 BOND ST

UNIVERSITY PARK IL 60484

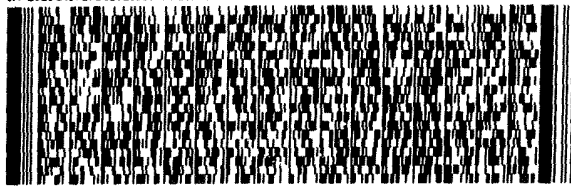
(708) 584-5200

REF:

INU:

DEPT:

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FedEx  
Express



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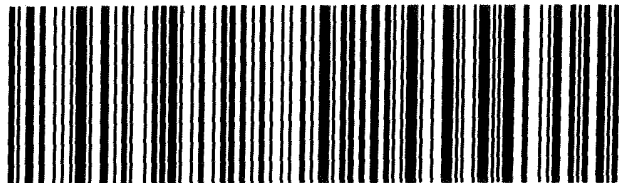
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WED - 09 FEB 4:30P  
\*\* 2DAY \*\*

TRK# 2895 7994 9275  
0201

4Z QMCKQ

60484  
IL-US ORD



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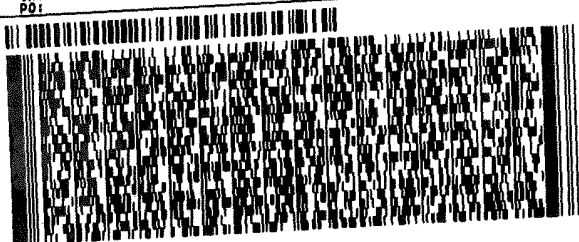
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KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

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

TO **SAMPLE RECEIVING  
EUROFINS  
2417 BOND ST**

**UNIVERSITY PARK IL 60484**

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



AN1090102201221

3 of 3  
MPS# 2896 6850 2797  
0263  
Metr# 2896 6850 2775

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

**4Z QMCKQ**

**60484  
IL-US ORD**



Part # 156297-435

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

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

Part # 156297-435

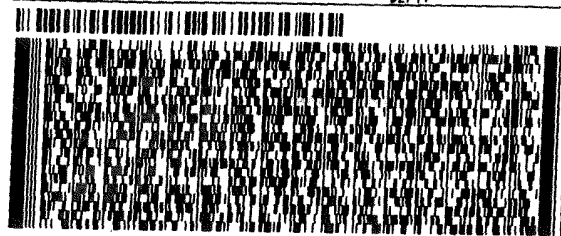
TO **SAMPLE RECEIVING  
EUROFINS  
2417 BOND ST**



500-211998 Wayb

**UNIVERSITY PARK IL 60484**

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



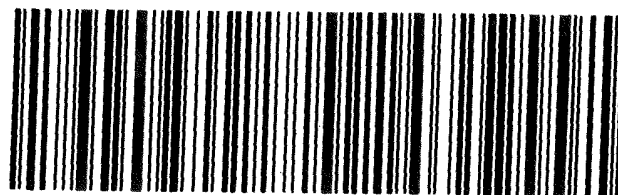
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0263  
Metr# 2896 6850 2775

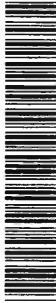
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\*\* 2DAY \*\***

**4Z QMCKQ**

**60484  
IL-US ORD**



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-157092.1
Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-211998-2
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045		<b>Analysis Requested</b>	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: Powerton CCR MCB		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Site: SSOW#:		Special Instructions/Note: Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
Due Date Requested: 3/9/2022		Total Number of Containers: 3	
TAT Requested (days):		Perform MS/MSD (Yes or No)	
PO #:		Field Filled Sample (Yes or No)	
WO #:		903.0/PreSep_21 Standard Target List	
Project #: 50018578		904.0/PreSep_0 Standard Target List	
SSOW#:		R426Ra228_GFPC	
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	
MW-17 (500-211998-1)		2/7/22	
<b>Sample Time</b>		<b>Sample Date</b>	
14:58 Central		2/7/22	
<b>Sample Type (C=comp, G=grab)</b>		<b>Preservation Code:</b>	
G=grab		Water	
<b>Matrix (Water, Sealed, On-water, On-water)</b>		<b>Field Filled Sample (Yes or No)</b>	
Water		X	
<b>Sample Type (C=comp, G=grab)</b>		<b>Perform MS/MSD (Yes or No)</b>	
G=grab		X	
<b>Sample Time</b>		<b>903.0/PreSep_21 Standard Target List</b>	
14:58 Central		X	
<b>Sample Date</b>		<b>904.0/PreSep_0 Standard Target List</b>	
2/7/22		X	
<b>Sample Type (C=comp, G=grab)</b>		<b>R426Ra228_GFPC</b>	
G=grab		X	
<b>Matrix (Water, Sealed, On-water, On-water)</b>		<b>Field Filled Sample (Yes or No)</b>	
Water		X	

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

**Possible Hazard Identification**  
 Unconfirmed  
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2  
 Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: *Maui Lopez* Date: *2/9/22* 1600 Company: *ETA*  
 Relinquished by: **FED EX** Date/Time: *2-10-22 1335* Company: *ETA*  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Custody Seals Intact: \_\_\_\_\_ Custody Seal No.: \_\_\_\_\_  
 Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements: \_\_\_\_\_  
 Method of Shipment: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by: *Sara Worthington* Date/Time: *2-10-22 1335* Company: *ETA*  
 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_





# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-157124.1									
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@Eurofins.com	State of Origin: Illinois	Page: 1 of 1									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois											
Address: 13715 Rider Trail North,		Job #: 500-211998-2											
City: Earth City	State, Zip: MO, 63045	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:											
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:	Analysis Requested											
Email:	WO #:	Total Number of Containers											
Project Name: Powerton CCR MCB	Project #: 50018578	Field Filtered Sample (Yes or No)											
Site:	SSOW#:	Perform MS/MSD (Yes or No)											
Due Date Requested: 2/28/2022		903.0/PreSep_21 Standard Target List											
TAT Requested (days):		904.0/PreSep_0 Standard Target List											
Sample Identification - Client ID (Lab ID)		R226R228_GPPC											
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=base, A=Air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	R226R228_GPPC	Analysis Requested	Total Number of Containers	Special Instructions/Note:
MW-20 (500-211998-2)	2/8/22	09:53 Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-15 (500-211998-3)	2/9/22	10:56 Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-14 (500-211998-4)	2/9/22	09:27 Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
Duplicate (500-211998-5)	2/9/22	Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-13 (500-211998-6)	2/9/22	12:30 Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.													
<b>Possible Hazard Identification</b> Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____ Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____													
Relinquished by: <i>Stephanie Hummer</i>		Date/Time: 2/10/22 16:30		Company: <i>FEDEX</i>		Received by: <i>Sena Worthington</i>		Date/Time: 2-11-22 0945		Company: <i>ETAS</i>		Cooler Temperature(s) °C and Other Remarks:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Custody Seal No.:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Custody Seal No.:	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-2

**Login Number: 211998**

**List Source: Eurofins Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3,0.8,-0.1,-1.4,0.3 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-2

**Login Number: 211998**

**List Number: 2**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 02/11/22 09:30 AM**

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





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-2

**Login Number: 211998**

**List Number: 3**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 02/12/22 08:58 AM**

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



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-2

**Login Number: 211998**

**List Number: 4**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 03/02/22 10:52 AM**

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



# Lab Chronicle

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

Job ID: 500-211998-2

**Client Sample ID: MW-17**  
**Date Collected: 02/07/22 14:58**  
**Date Received: 02/08/22 16:15**

**Lab Sample ID: 500-211998-1**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 09:45	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

**Client Sample ID: MW-20**  
**Date Collected: 02/08/22 09:53**  
**Date Received: 02/09/22 16:05**

**Lab Sample ID: 500-211998-2**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 09:45	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

**Client Sample ID: MW-15**  
**Date Collected: 02/09/22 10:56**  
**Date Received: 02/10/22 13:55**

**Lab Sample ID: 500-211998-3**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 09:43	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

**Client Sample ID: MW-14**  
**Date Collected: 02/09/22 09:27**  
**Date Received: 02/10/22 13:55**

**Lab Sample ID: 500-211998-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 09:44	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

# Lab Chronicle

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

Job ID: 500-211998-2

## Client Sample ID: Duplicate

Lab Sample ID: 500-211998-5

Date Collected: 02/09/22 00:00

Matrix: Water

Date Received: 02/10/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 11:50	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

## Client Sample ID: MW-13

Lab Sample ID: 500-211998-6

Date Collected: 02/09/22 12:30

Matrix: Water

Date Received: 02/10/22 13:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			550803	02/16/22 13:27	HRT	TAL SL
Total/NA	Analysis	903.0		1	554763	03/11/22 11:51	FLC	TAL SL
Total/NA	Prep	PrecSep_0			550806	02/16/22 13:53	HRT	TAL SL
Total/NA	Analysis	904.0		1	552954	03/02/22 13:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	555276	03/14/22 18:04	EMH	TAL SL

### Laboratory References:

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

# Accreditation/Certification Summary

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

Job ID: 500-211998-2

## Laboratory: Eurofins St. Louis

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

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

- 1
- 2
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# Tracer/Carrier Summary

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

Job ID: 500-211998-2

## 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)
500-211998-1	MW-17	85.8
500-211998-1 DU	MW-17	74.8
500-211998-2	MW-20	79.3
500-211998-3	MW-15	75.1
500-211998-4	MW-14	82.3
500-211998-5	Duplicate	91.3
500-211998-6	MW-13	75.6
LCS 160-550803/1-A	Lab Control Sample	95.0
MB 160-550803/20-A	Method Blank	93.0

#### 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)
500-211998-1	MW-17	85.8	84.1
500-211998-1 DU	MW-17	74.8	86.4
500-211998-2	MW-20	79.3	85.2
500-211998-3	MW-15	75.1	85.2
500-211998-4	MW-14	82.3	82.6
500-211998-5	Duplicate	91.3	84.9
500-211998-6	MW-13	75.6	86.0
LCS 160-550806/1-A	Lab Control Sample	95.0	87.9
MB 160-550806/20-A	Method Blank	93.0	88.2

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-211998-3  
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:  
3/17/2022 8:46:38 AM

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

### LINKS

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results through  
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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Method Summary . . . . .	4
Sample Summary . . . . .	5
Client Sample Results . . . . .	6
Definitions . . . . .	7
QC Association . . . . .	8
QC Sample Results . . . . .	9
Chain of Custody . . . . .	12
Receipt Checklists . . . . .	19
Chronicle . . . . .	20
Certification Summary . . . . .	21



# Case Narrative

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

Job ID: 500-211998-3

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**Job ID: 500-211998-3**

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**Laboratory: Eurofins Chicago**

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**Narrative**

**Job Narrative**  
**500-211998-3**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/8/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were -1.4° C, -0.1° C, 0.3° C, 0.3° C and 0.8° C.

**Metals**

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

**General Chemistry**

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

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- 2
- 3
- 4
- 5
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# Method Summary

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

Job ID: 500-211998-3

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

#### Protocol References:

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

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 500-211998-3

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-211998-7	MW-21	Water	03/01/22 10:10	03/01/22 15:05

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# Client Sample Results

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

Job ID: 500-211998-3

**Client Sample ID: MW-21**

**Lab Sample ID: 500-211998-7**

Date Collected: 03/01/22 10:10

Matrix: Water

Date Received: 03/01/22 15:05

## 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		03/02/22 08:11	03/02/22 14:36	1
<b>Arsenic</b>	<b>0.063</b>		0.0010		mg/L		03/02/22 08:11	03/02/22 14:36	1
<b>Barium</b>	<b>0.48</b>		0.0025		mg/L		03/02/22 08:11	03/02/22 14:36	1
Beryllium	<0.0010		0.0010		mg/L		03/02/22 08:11	03/02/22 14:36	1
<b>Boron</b>	<b>0.21</b>		0.050		mg/L		03/02/22 08:11	03/02/22 14:36	1
Cadmium	<0.00050		0.00050		mg/L		03/02/22 08:11	03/02/22 14:36	1
<b>Calcium</b>	<b>210</b>		0.20		mg/L		03/02/22 08:11	03/02/22 14:36	1
Chromium	<0.0050		0.0050		mg/L		03/02/22 08:11	03/02/22 14:36	1
<b>Cobalt</b>	<b>0.0085</b>		0.0010		mg/L		03/02/22 08:11	03/02/22 14:36	1
Lead	<0.00050		0.00050		mg/L		03/02/22 08:11	03/02/22 14:36	1
Lithium	<0.0020		0.0020		mg/L		03/02/22 08:11	03/02/22 14:36	1
Molybdenum	<0.0050		0.0050		mg/L		03/02/22 08:11	03/02/22 14:36	1
Selenium	<0.0025		0.0025		mg/L		03/02/22 08:11	03/02/22 14:36	1
Thallium	<0.0020		0.0020		mg/L		03/02/22 08:11	03/02/22 14:36	1

## Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/07/22 09:50	03/08/22 08:22	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>900</b>		10		mg/L			03/07/22 02:48	1
<b>Chloride</b>	<b>43</b>		2.0		mg/L			03/15/22 15:13	1
<b>Fluoride</b>	<b>0.24</b>		0.10		mg/L			03/03/22 17:18	1
Sulfate	<5.0		5.0		mg/L			03/15/22 17:18	1

# Definitions/Glossary

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

Job ID: 500-211998-3

## 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: 500-211998-3

## Metals

### Prep Batch: 645208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total Recoverable	Water	3005A	
MB 500-645208/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-645208/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Analysis Batch: 645443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total Recoverable	Water	6020A	645208
MB 500-645208/1-A	Method Blank	Total Recoverable	Water	6020A	645208
LCS 500-645208/2-A	Lab Control Sample	Total Recoverable	Water	6020A	645208

### Prep Batch: 645892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total/NA	Water	7470A	
MB 500-645892/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-645892/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 646077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total/NA	Water	7470A	645892
MB 500-645892/12-A	Method Blank	Total/NA	Water	7470A	645892
LCS 500-645892/13-A	Lab Control Sample	Total/NA	Water	7470A	645892

## General Chemistry

### Analysis Batch: 645550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total/NA	Water	SM 4500 F C	
MB 500-645550/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-645550/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 645805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total/NA	Water	SM 2540C	
MB 500-645805/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-645805/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-211998-7 DU	MW-21	Total/NA	Water	SM 2540C	

### Analysis Batch: 647120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total/NA	Water	SM 4500 CI- E	
MB 500-647120/69	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-647120/73	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-211998-7 MS	MW-21	Total/NA	Water	SM 4500 CI- E	
500-211998-7 MSD	MW-21	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 647243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total/NA	Water	SM 4500 SO4 E	
MB 500-647243/54	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-647243/55	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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# QC Sample Results

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

Job ID: 500-211998-3

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

**Lab Sample ID: MB 500-645208/1-A**  
**Matrix: Water**  
**Analysis Batch: 645443**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 645208**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		03/02/22 08:11	03/02/22 14:18	1
Arsenic	<0.0010		0.0010		mg/L		03/02/22 08:11	03/02/22 14:18	1
Barium	<0.0025		0.0025		mg/L		03/02/22 08:11	03/02/22 14:18	1
Beryllium	<0.0010		0.0010		mg/L		03/02/22 08:11	03/02/22 14:18	1
Boron	<0.050		0.050		mg/L		03/02/22 08:11	03/02/22 14:18	1
Cadmium	<0.00050		0.00050		mg/L		03/02/22 08:11	03/02/22 14:18	1
Calcium	<0.20		0.20		mg/L		03/02/22 08:11	03/02/22 14:18	1
Chromium	<0.0050		0.0050		mg/L		03/02/22 08:11	03/02/22 14:18	1
Cobalt	<0.0010		0.0010		mg/L		03/02/22 08:11	03/02/22 14:18	1
Lead	<0.00050		0.00050		mg/L		03/02/22 08:11	03/02/22 14:18	1
Lithium	<0.0020		0.0020		mg/L		03/02/22 08:11	03/02/22 14:18	1
Molybdenum	<0.0050		0.0050		mg/L		03/02/22 08:11	03/02/22 14:18	1
Selenium	<0.0025		0.0025		mg/L		03/02/22 08:11	03/02/22 14:18	1
Thallium	<0.0020		0.0020		mg/L		03/02/22 08:11	03/02/22 14:18	1

**Lab Sample ID: LCS 500-645208/2-A**  
**Matrix: Water**  
**Analysis Batch: 645443**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 645208**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.503		mg/L		101	80 - 120
Arsenic	0.100	0.0938		mg/L		94	80 - 120
Barium	2.00	2.04		mg/L		102	80 - 120
Beryllium	0.0500	0.0528		mg/L		106	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.211		mg/L		105	80 - 120
Cobalt	0.500	0.527		mg/L		105	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Lithium	0.500	0.532		mg/L		106	80 - 120
Molybdenum	1.00	0.972		mg/L		97	80 - 120
Selenium	0.100	0.0974		mg/L		97	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-645892/12-A**  
**Matrix: Water**  
**Analysis Batch: 646077**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 645892**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/07/22 09:50	03/08/22 08:11	1

# QC Sample Results

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

Job ID: 500-211998-3

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

Lab Sample ID: LCS 500-645892/13-A  
Matrix: Water  
Analysis Batch: 646077

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 645892  
%Rec.

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

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

Lab Sample ID: MB 500-645805/1  
Matrix: Water  
Analysis Batch: 645805

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			03/07/22 02:36	1

Lab Sample ID: LCS 500-645805/2  
Matrix: Water  
Analysis Batch: 645805

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	250	248		mg/L		99	80 - 120

Lab Sample ID: 500-211998-7 DU  
Matrix: Water  
Analysis Batch: 645805

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	900		892		mg/L		0.7	5

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

Lab Sample ID: MB 500-647120/69  
Matrix: Water  
Analysis Batch: 647120

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			03/15/22 15:12	1

Lab Sample ID: LCS 500-647120/73  
Matrix: Water  
Analysis Batch: 647120

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chloride	20.0	20.5		mg/L		103	85 - 115

Lab Sample ID: 500-211998-7 MS  
Matrix: Water  
Analysis Batch: 647120

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	43		20.0	58.2		mg/L		76	75 - 125



# QC Sample Results

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

Job ID: 500-211998-3

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

Lab Sample ID: 500-211998-7 MSD  
Matrix: Water  
Analysis Batch: 647120

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
Chloride	43		20.0	58.5		mg/L		77	75 - 125	0	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-645550/31  
Matrix: Water  
Analysis Batch: 645550

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			03/03/22 15:57	1

Lab Sample ID: LCS 500-645550/32  
Matrix: Water  
Analysis Batch: 645550

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	10.4		mg/L		104	90 - 119

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

Lab Sample ID: MB 500-647243/54  
Matrix: Water  
Analysis Batch: 647243

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/15/22 17:12	1

Lab Sample ID: LCS 500-647243/55  
Matrix: Water  
Analysis Batch: 647243

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	21.4		mg/L		107	88 - 123

Eurofins Chicago

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

Chain of Custody Record

eurofins Environment Testing America

Form with sections: Client Information, Analysis Requested, Sample Identification, Possible Hazard Identification, Sample Disposal, and Chain of Custody. Includes handwritten entries like 'M. Kress', '630 703-7240', '500-211998', and 'MW-17'.



### Chain of Custody Record

MCB

<b>Client Information</b> Client Contact: Mitchel Dolan	Sampler: M. Kess	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-98565-43260 1			
Company: KPRG and Associates, Inc.	Phone: 630.203.7240	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Page: Page 1 of 1			
Address: 414 Plaza Drive Suite 106 City: Westmont State, Zip: IL, 60559 Phone: 262-781-0475(Tel) Email: mitcheld@kprginc.com	PWSID: Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: 4502081030 WO #:	<b>Analysis Requested</b> Job #: 500-211998				
Project Name: Powerton CCR MCB	Project #: 50018578	<b>Preservation Codes:</b> 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)				
Site: 500-211998 COC	SSOW#:	<b>Other</b>				
<b>Sample Identification</b>	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note:	
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						
<b>Deliverable Requested.</b> I, II, III, IV, Other (specify)			<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
<b>Empty Kit Relinquished by</b>			Date:	Time:	<b>Special Instructions/QC Requirements:</b>	
Relinquished by: M. Kess	Date/Time: 2/8 17:45	Company: VPRG	Received by: M. Kess	Date/Time: 2/9/22 1605	Company: VPRG	
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 checked="" type="checkbox"/> No	Custody Seal No.: 1741069	Cooler Temperature(s) °C and Other Remarks: 1.3		Date/Time: 2/17/2022		

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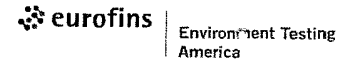
Method	Volume	Temperature	Time	Preservation Code	Other
2540 C, 4500 F, C, SM4500, Cl, E, SM4500, SOX, E	903.0 - Radium 226	904.0 - Radium 228	Rad226&228, GFPC - Rad Combined	6010 C, 6020A, 7470A	
Eric Heide (Trace Sample Yes or No)					
Parsons (Sample Yes or No)					

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**Eurofins Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler:		Lab PM: Mockler, Diana J		Carrier: <i>Tenneco Mfg.</i>		COC No: 500-98565-43260 1			
Client Contact: Mitchel Dolan		Phone:		E-Mail: Diana Mockler@Eurofinset.com		Stat:		Page: Page 1 of 1			
Company: KPRG and Associates, Inc.		PWSID:		<b>Analysis Reque</b>		500-211998 COC		Job #: 500-211998			
Address: 414 Plaza Drive Suite 106		Due Date Requested						Field Filtered Sample (Yes or No) Perform WSI/SDI (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		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)	
City: Westmont		TAT Requested (days):								Total Number of Containers	
State, Zip, IL, 60559		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: 262-781-0475(Tel)		PO #: 4502081030									
Email: mitcheld@kprginc.com		WO #:									
Project Name: Powerton CCR MCB		Project #: 50018578									
Site:		SSOW#:									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)						Special Instructions/Note:
3 MW-15		2/9	10:56	G	Water	N	D	D	D	D	
4 MW-14		2/9	9:27	G	Water						
MW-17					Water						
MW-20					Water						
MW-21					Water						
Duplicate					Water						
MW-13					Water						
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:				
Relinquished by: <i>M. Less</i>			Date/Time: 2/9 16:00		Company: <i>KPRG</i>		Received by: <i>Stephanie Hammond</i>		Date/Time: 2/10/22 1355		Company: <i>ETA</i>
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: 1739226				Cooler Temperature(s) °C and Other Remarks: 0.4 → -0.1					





**Chain of Custody Record**

<b>Client Information</b>		Sampler: <u>M. Hess</u>	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500-98565-43260 1
Client Contact: Mitchel Dolan		Phone: <u>630.203.7240</u>	E-Mail: Diana Mockler@Eurofinset.com	State of Origin:	Page 1 of 1
Company: KPRG and Associates Inc			PWSID:	<b>Analysis Requested</b>	
Address: 414 Plaza Drive Suite 106		Due Date Requested:		Job #: <u>500-211998</u>	
City: Westmont		TAT Requested (days):		Preservation Codes	
State Zip: IL 60559		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		A HCL M Hexane	
Phone: 262-781-0475(Tel)		PO #: 4502081030		B NaOH N None	
Email: mitcheld@kprginc.com		WO #:		C Zn Acetate O AsNaO2	
Project Name: Powerton CCR MCB		Project #: 50018578		D Nitric Acid P Na2O4S	
Site:		SSOW#:		E NaHSO4 Q Na2SO3	
				F - MeOH R Na2S2O3	
				G Amchlor S H2SO4	
				H Ascorbic Acid T TSP Dodecahydrate	
				I Ice U Acetone	
				J DI Water V MCAA	
				K - EDTA W pH 4-5	
				L - EDA Z other (specify)	
				Other:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested					Total Number of containers	Special Instructions/Note	
							2540C, 4500_F_C, SM4500_CL_E, SM4500_S04_E							
							903.0 - Radium 226							
							904.0 - Radium 228							
							Rad226Rad228_GFFC - Rad Combined							
							6010C, 6020A, 7470A							
MW-15				Water										
MW-14				Water										
MW-17				Water										
MW-20				Water										
MW-21				Water										
5 Duplicate	2/9		G	Water				X	X	X				
6 MW-13	2/9	12:30	G	Water				X	X	X				

<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested I II III IV Other (specify)			Special Instructions/QC Requirements		
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: <u>M. Hess</u>	Date/Time: <u>2/9 16:00</u>	Company: <u>KPRG</u>	Received by: <u>Stephanie Hemmigh</u>	Date/Time: <u>2/10/22 1355</u>	Company: <u>EETA</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>1802041</u>	Cooler Temperature(s) °C and Other Remarks: <u>-0.9 to -1.4</u>			

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**Eurofins Chicago**

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

**Chain of Custody Record**

eurofins  
Environment Testing  
America

<b>Client Information</b>		Sampler: <i>M. Press</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s):		COC No 500-99019-43377 1						
Client Contact: Mitchel Dolan		Phone: <i>630.203.7240</i>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin:		Page Page 1 of 1						
Company: KPRG and Associates Inc.		PWSID		<b>Analysis Reque:</b> 		500-211998 COC		Job #: <i>500-211998</i>						
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested						Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Total Number of containers		<b>Preservation Codes</b> 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)		
City: Brookfield		TAT Requested (days)												
State Zip WI 53005		Compliance Project    Δ Yes    Δ No												
Phone 262-781-0475(Tel)		PO # 4502081030												
Email mitcheld@kprginc.com		WO #		Project # 50018578		SSOW#		Special Instructions/Note						
Project Name Powerton CCR MCB		Site												
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_SO4_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228_GFPC - Rad Combined	6010C, 6020A 7470A	Total Number of containers	Special Instructions/Note
MW-21		<i>3/1/22</i>	<i>10 10</i>	<i>G</i>	<i>Water</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>				
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements								
Empty Kit Relinquished by			Date		Time		Method of Shipment:							
Relinquished by: <i>M. Press</i>			Date/Time: <i>3/1/22 1:05</i>		Company: <i>KPRG</i>		Received by: <i>Stephanie Hernandez</i>		Date/Time: <i>3/1/22 1505</i>		Company: <i>ETA</i>			
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:			
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact Δ Yes    Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <i>0.8 → 0.5 0.3</i> <i>SE 3/1/22</i>										





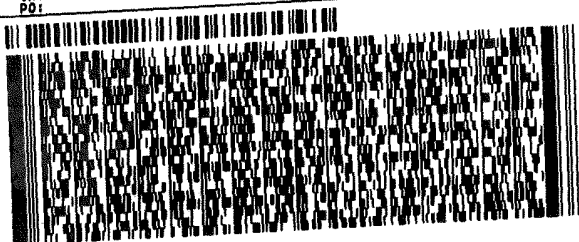
ORIGIN ID:PIAA (000) 000-0000  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

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

TO **SAMPLE RECEIVING  
EUROFINS  
2417 BOND ST**

**UNIVERSITY PARK IL 60484**

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



AN1090102201221

3 of 3  
MPS# 2896 6850 2797  
0263  
Metr# 2896 6850 2775

0201

**4Z QMCKQ**

60484  
IL-US ORD



Part # 156297-435

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

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

Part # 156297-435

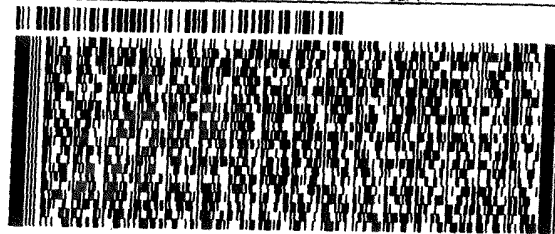
TO **SAMPLE RECEIVING  
EUROFINS  
2417 BOND ST**



500-211998 Wayb

**UNIVERSITY PARK IL 60484**

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



AN1090102201221

2 of 3  
MPS# 2896 6850 2786  
0263  
Metr# 2896 6850 2775

0201

**4Z QMCKQ**

60484  
IL-US ORD





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-3

**Login Number: 211998**

**List Source: Eurofins 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	0.3,0.8,-0.1,-1.4,0.3 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Lab Chronicle

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

Job ID: 500-211998-3

**Client Sample ID: MW-21**

**Lab Sample ID: 500-211998-7**

**Date Collected: 03/01/22 10:10**

**Matrix: Water**

**Date Received: 03/01/22 15:05**

<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			645208	03/02/22 08:11		TAL CHI
Total Recoverable	Analysis	6020A		1	645443	03/02/22 14:36	FXG	TAL CHI
Total/NA	Prep	7470A			645892	03/07/22 09:50	MJG	TAL CHI
Total/NA	Analysis	7470A		1	646077	03/08/22 08:22	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	645805	03/07/22 02:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	647120	03/15/22 15:13	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 17:18	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	647243	03/15/22 17:18	PFK	TAL CHI

### Laboratory References:

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

# Accreditation/Certification Summary

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

Job ID: 500-211998-3

## Laboratory: Eurofins Chicago

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

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

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

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-211998-4  
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:  
4/4/2022 8:35:37 AM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Case Narrative . . . . .	3
Method Summary . . . . .	4
Sample Summary . . . . .	5
Client Sample Results . . . . .	6
Definitions . . . . .	7
QC Association . . . . .	8
QC Sample Results . . . . .	9
Chain of Custody . . . . .	11
Receipt Checklists . . . . .	19
Chronicle . . . . .	23
Certification Summary . . . . .	24
Tracer Carrier Summary . . . . .	25

# Case Narrative

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

Job ID: 500-211998-4

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## Job ID: 500-211998-4

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### Laboratory: Eurofins Chicago

#### Narrative

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#### Job Narrative 500-211998-4

#### Comments

No additional comments.

#### Receipt

The samples were received on 2/8/2022 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were -1.4° C, -0.1° C, 0.3° C, 0.3° C and 0.8° C.

#### RAD

Method 903.0: Radium 226 batch 553499

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 (500-211998-7), (LCS 160-553499/1-A), (LCSD 160-553499/2-A) and (MB 160-553499/22-A)

Method 904.0: Radium 228 Batch 160-553475:

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 (500-211998-7), (LCS 160-553475/1-A), (LCSD 160-553475/2-A) and (MB 160-553475/22-A)

Method PrecSep\_0: Radium-228 Prep Batch 160-553475

The following samples were prepared at a reduced aliquot due to Matrix: MW-21 (500-211998-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

Method PrecSep-21: Radium-226 Prep Batch 160-553499

The following samples were prepared at a reduced aliquot due to Matrix: MW-21 (500-211998-7). A laboratory control sample/ laboratory control sample duplicate (LCS/LCSD) were prepared instead of a sample duplicate (DUP) to demonstrate batch precision.

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

# Method Summary

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

Job ID: 500-211998-4

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 500-211998-4

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-211998-7	MW-21	Water	03/01/22 10:10	03/01/22 15:05

- 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: 500-211998-4

**Client Sample ID: MW-21**  
Date Collected: 03/01/22 10:10  
Date Received: 03/01/22 15:05

**Lab Sample ID: 500-211998-7**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.319</b>		0.153	0.156	1.00	0.180	pCi/L	03/04/22 12:05	03/28/22 10:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					03/04/22 12:05	03/28/22 10:37	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.884</b>		0.381	0.389	1.00	0.541	pCi/L	03/04/22 09:45	03/23/22 13:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					03/04/22 09:45	03/23/22 13:40	1
Y Carrier	85.6		40 - 110					03/04/22 09:45	03/23/22 13:40	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.20</b>		0.411	0.419	5.00	0.541	pCi/L		04/01/22 17:26	1

# Definitions/Glossary

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

Job ID: 500-211998-4

## Qualifiers

### Rad

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

## Glossary

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

# QC Association Summary

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

Job ID: 500-211998-4

## Rad

### Prep Batch: 553475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total/NA	Water	PrecSep_0	
MB 160-553475/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-553475/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
LCSD 160-553475/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep_0	

### Prep Batch: 553499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-211998-7	MW-21	Total/NA	Water	PrecSep-21	
MB 160-553499/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-553499/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
LCSD 160-553499/2-A	Lab Control Sample Dup	Total/NA	Water	PrecSep-21	

# QC Sample Results

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

Job ID: 500-211998-4

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

**Lab Sample ID: MB 160-553499/22-A**  
**Matrix: Water**  
**Analysis Batch: 557421**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 553499**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.0961	U	0.0582	0.0583	1.00	0.0961	pCi/L	03/04/22 12:05	03/28/22 10:38	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	98.8		40 - 110			03/04/22 12:05	03/28/22 10:38	1		

**Lab Sample ID: LCS 160-553499/1-A**  
**Matrix: Water**  
**Analysis Batch: 557421**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 553499**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.03		1.08	1.00	0.152	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	96.6		40 - 110						

**Lab Sample ID: LCSD 160-553499/2-A**  
**Matrix: Water**  
**Analysis Batch: 557421**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 553499**

Analyte	Spike Added	LCSD Result	LCSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
				Uncert. (2σ+/-)							
Radium-226	11.3	11.35		1.24	1.00	0.137	pCi/L	100	75 - 125	0.57	1
Carrier	LCSD %Yield	LCSD Qualifier	Limits			Prepared	Analyzed	Dil Fac			
Ba Carrier	96.3		40 - 110								

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

**Lab Sample ID: MB 160-553475/22-A**  
**Matrix: Water**  
**Analysis Batch: 556677**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 553475**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.378	U	0.243	0.245	1.00	0.378	pCi/L	03/04/22 09:45	03/23/22 13:40	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	98.8		40 - 110			03/04/22 09:45	03/23/22 13:40	1		
Y Carrier	87.1		40 - 110			03/04/22 09:45	03/23/22 13:40	1		

# QC Sample Results

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

Job ID: 500-211998-4

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

**Lab Sample ID: LCS 160-553475/1-A**  
**Matrix: Water**  
**Analysis Batch: 556690**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 553475**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits													
Radium-228	8.77	6.973		0.872	1.00	0.352	pCi/L	80	75 - 125													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>96.6</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>80.7</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>											Carrier	LCS %Yield	LCS Qualifier	Limits	Ba Carrier	96.6		40 - 110	Y Carrier	80.7		40 - 110
Carrier	LCS %Yield	LCS Qualifier	Limits																			
Ba Carrier	96.6		40 - 110																			
Y Carrier	80.7		40 - 110																			

**Lab Sample ID: LCSD 160-553475/2-A**  
**Matrix: Water**  
**Analysis Batch: 556690**

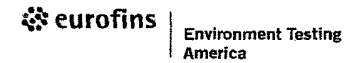
**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 553475**


Analyte	Spike Added	LCSD Result	LCSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER	RER Limit												
Radium-228	8.77	8.398		1.00	1.00	0.345	pCi/L	96	75 - 125	0.76	1													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Carrier</th> <th>LCSD %Yield</th> <th>LCSD Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>96.3</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>82.2</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>													Carrier	LCSD %Yield	LCSD Qualifier	Limits	Ba Carrier	96.3		40 - 110	Y Carrier	82.2		40 - 110
Carrier	LCSD %Yield	LCSD Qualifier	Limits																					
Ba Carrier	96.3		40 - 110																					
Y Carrier	82.2		40 - 110																					

**Eurofins Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>				Sampler: <u>M. Kess</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-98565-43260 1			
Client Contact: Mitchel Dolan				Phone: <u>630 903-7240</u>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin:		Page: Page 1 of 1			
Company: KPRG and Associates, Inc.				PWSID:		<b>Analysis Requested</b>  500-211998 COC Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify) Other:							
Address: 414 Plaza Drive Suite 106				Due Date Requested:									
City: Westmont				TAT Requested (days):									
State, Zip: IL, 60559				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone: 262-781-0475(Tel)				PO #: 4502081030									
Email: mitcheld@kprginc.com				WO #:									
Project Name: Powerton CCR MCB				Project #: 50018578		SSOW#:							
Site:													
Sample Identification				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Analysis Requested				Special Instructions/Note:	
								Total Number of Containers 2540C, 4500_F_C, SM4500_C1_E, SM4500_SO4_E 903.0 - Radium 226 904.0 - Radium 228 Ra226&228_GFPCC - Rad Combined 6010C, 6020A, 7470A					
MW-15							Water						
MW-14							Water						
<u>MW-17</u>				<u>2/7/22</u>	<u>14:58</u>	<u>G</u>	Water	X	X	X	X		
MW-20							Water						
MW-21							Water						
Duplicate							Water						
MW-13							Water						
<b>Possible Hazard Identification</b>								<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological								<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)								Special Instructions/QC Requirements:					
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:					
Relinquished by: <u>M. Kess</u>				Date/Time: <u>2/7/22 17:30</u>		Company: <u>KPRG</u>		Received by: <u>Stephanie Hemondale</u>		Date/Time: <u>2/8/22 16:15</u>			
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:			
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody-Seal No.: <u>1739227</u>		Cooler Temperature(s) °C and Other Remarks: <u>0.0 + 0.3</u>							

**Eurofins Chicago**

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

MCB

**Chain of Custody Record**

**eurofins** | Environment Testing  
America



<b>Client Information</b>		Sampler: <i>M. Gess</i>	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-98565-43260 1
Client Contact: Mitchel Dolan		Phone: <i>630.203.7240</i>	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin:	Page: Page 1 of 1

Company: KPRG and Associates, Inc.		PWSID:	<b>Analysis Requested</b>		Job #:
Address: 414 Plaza Drive Suite 106		Due Date Requested:			Job #:



500-211998 COC

City: Westmont	TAT Requested (days):	2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E 903.0 - Radium 226 904.0 - Radium 228 Ra226Ra228_GFPC - Rad Combined 6010C, 6020A, 7470A	Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: IL, 60559	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Phone: 262-781-0475(Tel)	PO #: 4502081030		
Email: mitcheld@kprginc.com	WO #:		
Project Name: Powerton CCR MCB	Project #: 50018578		
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)	Analysis Requested										Special Instructions/Note:			
					Preservation Code	N	D	D	D	D	D	D	D	D		D		
MW-15				Water														
MW-14				Water														
MW-17				Water														
<i>2</i> MW-20	<i>2/8</i>	<i>9:53</i>	<i>G</i>	Water		X	X	X	X	X								
MW-21				Water														
Duplicate				Water														
MW-13				Water														

2  
3  
2/9/22

<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				

Empty Kit Relinquished by: <i>M. Gess</i>		Date: <i>2/8 17:45</i>	Company: <i>VPRG</i>	Received by: <i>Mic Scott</i>		Date/Time: <i>2/9/22 16:05</i>	Company: <i>EPED</i>
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.: <i>1741069</i>	Cooler Temperature(s) °C and Other Remarks: <i>1.3</i>
--	----------------------------------	--



**Eurofins Chicago**

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

**Chain of Custody Record**

<b>Client Information</b>		Sampler:	Lab PM: Mockler, Diana J		Carrier: <i>Tenneco Mfg.</i>	COC No: 500-98565-43260 1							
Client Contact: Mitchel Dolan		Phone:	E-Mail: Diana Mockler@Eurofinset.com		Stat: 	Page: Page 1 of 1							
Company: KPRG and Associates, Inc.		PWSID:	<b>Analysis Reque</b>			Job #: <i>500-211998</i>							
Address: 414 Plaza Drive Suite 106		Due Date Requested:				500-211998 COC							
City: Westmont		TAT Requested (days):											
State, Zip: IL, 60559		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Phone: 262-781-0475(Tel)		PO #: 4502081030											
Email: mitcheld@kprginc.com		WO #:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Perform WSI/SDI (Yes or No)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">903.0 - Radium 226</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">904.0 - Radium 228</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Ra226Ra228_GFPC - Rad Combined</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">6010C, 6020A, 7470A</td> </tr> </table>			Field Filtered Sample (Yes or No)	Perform WSI/SDI (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	<b>Preservation Codes:</b> 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)
Field Filtered Sample (Yes or No)	Perform WSI/SDI (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				
Project Name: Powerton CCR MCB		Project #:				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of containers</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Special Instructions/Note:</td> </tr> </table>			Total Number of containers	Special Instructions/Note:			
Total Number of containers	Special Instructions/Note:												
Site:		SSOW#:											
Sample Identification		Sample Date											
Sample Type (C=Comp, G=grab)		Sample Time											
Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Preservation Code:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>N</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table>				N	D	D	D	D		
N	D	D	D	D									
MW-15		2/9	10:56	G	Water		X	X	X	X			
MW-14		2/9	9:27	G	Water		X	X	X	X			
MW-17					Water								
MW-20					Water								
MW-21					Water								
Duplicate					Water								
<del>MW-13</del>					Water								
<b>Possible Hazard Identification</b>					<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>								
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements								
Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:								
Relinquished by: <i>M. Less</i>		Date/Time: 2/9 16:00	Company: <i>KPRG</i>		Received by: <i>Stephanie Hernandez</i>		Date/Time: 2/10/22 1355		Company: <i>EEIA</i>				
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: <i>1739226</i>			Cooler Temperature(s) °C and Other Remarks: <i>0.4 → -0.1</i>								

3  
4





**Eurofins Chicago**

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

**Chain of Custody Record**

<b>Client Information</b>		Sampler: <u>M. Hess</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s):		COC No: 500-98565-43260 1															
Client Contact: Mitchel Dolan		Phone: <u>630.203.7240</u>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin:		Page 1 of 1															
Company: KPRG and Associates Inc		PWSID:		<b>Analysis Requested</b>				Job #: <u>500-211998</u>															
Address: 414 Plaza Drive Suite 106		Due Date Requested:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>2540C - 4500_F_C_SMA4500_CL_E_SMA4500_S04_E</th> <th>903.0 - Radium 226</th> <th>904.0 - Radium 228</th> <th>Rad226Ra228_GFPC - Rad Combined</th> <th>6010C, 6020A, 7470A</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C - 4500_F_C_SMA4500_CL_E_SMA4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Rad226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A								Preservation Codes:	
Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C - 4500_F_C_SMA4500_CL_E_SMA4500_S04_E	903.0 - Radium 226					904.0 - Radium 228	Rad226Ra228_GFPC - Rad Combined	6010C, 6020A, 7470A													
City: Westmont		TAT Requested (days):						A HCL		M Hexane													
State Zip: IL 60559		Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No						B NaOH		N None													
Phone: 262-781-0475(Tel)		PO #: 4502081030		C Zn Acetate		O AsNaO2																	
Email: mitcheld@kprginc.com		WO #:		D Nitric Acid		P Na2O4S																	
Project Name: Powerton CCR MCB		Project #: 50018578		E NaHSO4		Q Na2SO3																	
Site:		SSOW#:		F - MeOH		R Na2S2O3																	
				G Amchlor		S H2SO4																	
				H Ascorbic Acid		T TSP Dodecahydrate																	
				I Ice		U Acetone																	
				J DI Water		V MCAA																	
				K - EDTA		W pH 4-5																	
				L - EDA		Z other (specify)																	
				Other:																			

 Total Number of containers: | || **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\_SMA4500\_CL\_E\_SMA4500\_S04\_E** | | **903.0 - Radium 226** | | **904.0 - Radium 228** | | **Rad226Ra228\_GFPC - Rad Combined** | | **6010C, 6020A, 7470A** | | **Total Number of containers:** | | **Special Instructions/Note** | |
MW-15								Water																			
MW-14								Water																			
MW-17								Water																			
MW-20								Water																			
MW-21								Water																			
5 Duplicate		2/9		1		G		Water																			
6 MW-13		2/9		12:30		G		Water																			

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

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

Deliverable Requested I II III IV Other (specify): \_\_\_\_\_

Special Instructions/QC Requirements: \_\_\_\_\_

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

Relinquished by: M. Hess Date/Time: 2/9 16:00 Company: KPRG Received by: Stephanie Hemminger Date/Time: 2/10/22 1355 Company: EETA

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No Custody Seal No: 1802041 Cooler Temperature(s) °C and Other Remarks: -0.9 to -1.4




**Eurofins Chicago**

2417 Bond Street  
University Park IL 60484  
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**Chain of Custody Record**

**eurofins** Environment Testing  
America

<b>Client Information</b>		Sampler: <u>M. Press</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s):		COC No 500-99019-43377 1			
Client Contact: Mitchel Dolan		Phone: <u>630.203.7240</u>		E-Mail: Diana Mockler@Eurofinset.com		State of Origin:		Page Page 1 of 1			
Company: KPRG and Associates Inc.		PWSID		<b>Analysis Reque:</b>  500-211998 COC		Job #: <u>500-211998</u>		<b>Preservation Codes</b> 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:			
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested									
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 # 4502081030									
Email mitcheld@kprginc.com		WO #		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers			
Project Name Powerton CCR MCB		Project # 50018578		2540C 4500_F_C SM4500_CI_E SM4500_S04_E		903.0 - Radium 226					
Site		SSOW#		904.0 - Radium 228		Ra226Ra228_GFPC - Rad Combined		6010C, 6020A 7470A			
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note	
MW-21		3/1/22		10 10		G		Water		Preservation Code: <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D <input checked="" type="checkbox"/> D	
<b>Possible Hazard Identification</b>		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements			
Deliverable Requested I II III IV Other (specify)		Empty Kit Relinquished by		Date		Time		Method of Shipment:			
Relinquished by: <u>M. Press</u>		Date/Time: <u>3/1/22 1:05</u>		Company: <u>KPRG</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>3/1/22 1505</u>		Company: <u>ETA</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		Cooler Temperature(s) °C and Other Remarks <u>0.8 -&gt; 0.5 0.3</u> <u>SE 3/1/22</u>							

ORIGIN ID:PIAA (555) 555-5555  
MITCH DOLAN  
KPRG AND ASSOCIATES  
414 PLAZA OR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 07FEB22  
ACTWGT: 57.50 LB  
CAD: 6994780/SSFE2220  
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 158297-438  
SHIP DATE: 07FEB22  
EXP 11/22



500-211998 Wayb

TO TESTAMERICA CHICAGO  
TESTAMERICA CHICAGO  
2417 BOND ST

UNIVERSITY PARK IL 60484

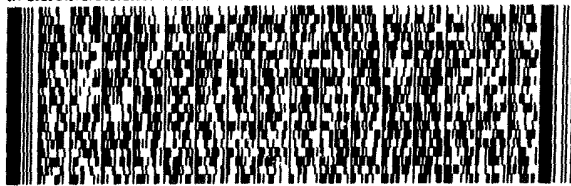
(708) 584-5200

REF:

IMU:

DEPT:

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FedEx  
Express



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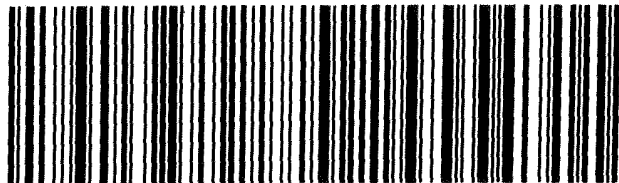
REL#  
3785346

WED - 09 FEB 4:30P  
\*\* 2DAY \*\*

TRK# 2895 7994 9275  
0201

4Z QMCKQ

60484  
IL-US ORD



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- 11
- 12
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- 14

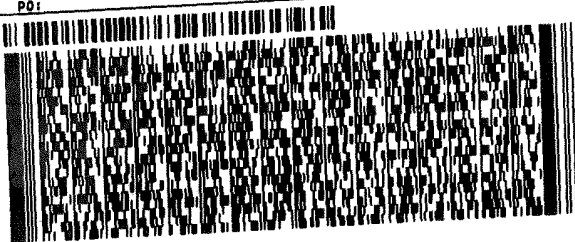
ORIGIN ID:PIAA (000) 000-0000  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

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

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

**UNIVERSITY PARK IL 60484**

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



3 of 3  
MPS# 2896 6850 2797  
0263  
Metr# 2896 6850 2775 0201

**4Z QMCKQ**

60484  
IL-US ORD



Part # 156297-435 FEB 2022

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

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

Part # 156297-435

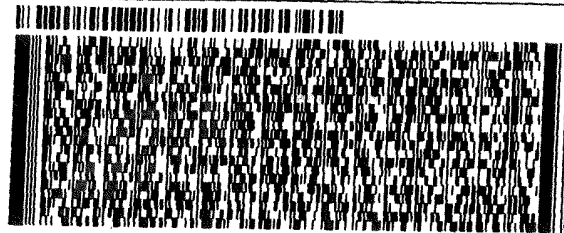
TO **SAMPLE RECEIVING**  
**EUROFINS**  
**2417 BOND ST**



500-211998 Wayb

**UNIVERSITY PARK IL 60484**

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



2 of 3  
MPS# 2896 6850 2786  
0263  
Metr# 2896 6850 2775 0201

**4Z QMCKQ**

**FRI - 11 FEB 4:30P**  
**\*\* 2DAY \*\***  
60484  
IL-US ORD



# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler:	Lab PM:		Camera Tracking No(s):
Client Contact:		Phone:	Mockler, Diana J		COC No: 500-157667.1
Shipping/Receiving		E-Mail:		State of Origin:	
Company:		Diana.Mockler@Eurofins.com		Illinois	
Address:		Accreditations Required (See note):			
13715 Rider Trail North,		NELAP - Illinois			
City:		Due Date Requested:		Job #:	
Earth City		3/1/2022		500-211998-1	
State, Zip:		TAT Requested (days):		Preservation Codes:	
MO, 63045				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name:		Project #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Powertron CCR MCB		50018578			
Site:		SSOW#:			
Sample Identification - Client ID (Lab ID)		Sample Date		Total Number of Containers	
MW-21 (500-211998-7)		3/1/22		3	
Sample Time		Sample Time		Special Instructions/Note:	
10:10		10:10		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	
Central		Central			
Matrix		Sample Type			
(W=Water, S=solid, O=waste/oil, B=Tissue, A=At)		(C=Comp, G=grab)			
Water		903.0/PreSep_21 Standard Target List			
		904.0/PreSep_0 Standard Target List			
		Perform MS/MSD (Yes or No)			
		Field Filtered Sample (Yes or No)			
		Raz26Ra228_GFPc			

**Analysis Requested**

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

**Possible Hazard Identification**  
 Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Method of Shipment: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by: *Alan Scott* Date/Time: 3/1/22 1600 Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: *Jena Wedington* Date/Time: MAR 02 2022 0930  
 Relinquished by: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received by: \_\_\_\_\_ Date/Time: \_\_\_\_\_

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





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-4

**Login Number: 211998**

**List Source: Eurofins 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	0.3,0.8,-0.1,-1.4,0.3 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-4

**Login Number: 211998**

**List Number: 2**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 02/11/22 09:30 AM**

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

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-4

**Login Number: 211998**

**List Number: 3**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 02/12/22 08:58 AM**

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



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-211998-4

**Login Number: 211998**

**List Number: 4**

**Creator: Worthington, Sierra M**

**List Source: Eurofins St. Louis**

**List Creation: 03/02/22 10:52 AM**

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

# Lab Chronicle

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

Job ID: 500-211998-4

**Client Sample ID: MW-21**

**Lab Sample ID: 500-211998-7**

**Date Collected: 03/01/22 10:10**

**Matrix: Water**

**Date Received: 03/01/22 15:05**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			553499	03/04/22 12:05	LPS	TAL SL
Total/NA	Analysis	903.0		1	557421	03/28/22 10:37	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553475	03/04/22 09:45	LPS	TAL SL
Total/NA	Analysis	904.0		1	556677	03/23/22 13:40	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	558297	04/01/22 17:26	EMH	TAL SL

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-211998-4

## Laboratory: Eurofins St. Louis

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

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

- 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: 500-211998-4

## 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)
500-211998-7	MW-21	89.2
LCS 160-553499/1-A	Lab Control Sample	96.6
LCSD 160-553499/2-A	Lab Control Sample Dup	96.3
MB 160-553499/22-A	Method Blank	98.8

#### 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)
500-211998-7	MW-21	89.2	85.6
LCS 160-553475/1-A	Lab Control Sample	96.6	80.7
LCSD 160-553475/2-A	Lab Control Sample Dup	96.3	82.2
MB 160-553475/22-A	Method Blank	98.8	87.1

#### Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	12313.1 – Midwest Generation - Powerton Station		DATE	2/9
Well Name	MW-13	Condition of Well	good	
Depth to Water (i)	32.87	Total Depth	43.12	
Volume in Well		Volume Removed	1.2 gal	
Method of Purge	Dedicated Pump	Purge Description	cloudy gray	
Method of Sample	Dedicated Pump	Sample Description	cloudy, light gray	
Depth to Water (a)	34.19	Sample Time	12:30	

	Time (CST)	Depth to Water (ft)	Temp (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	ph (SU)	ORP (mV)	Turb
Initial / Before Purge	12:14	32.87	13.3	2472	9.63	7.53	20.0	6.82
	12:19		14.1	2896	0.90	7.66	-200.3	36.81
	12:24		14.0	2884	0.61	7.67	-212.3	9.33
	12:29	34.19	14.1	2890	0.57	7.67	-215.6	1.99
Historic Readings	Date							
Before Purging	12/2012	33.54	14.8	2.15	3.54	7.92	134	
Before Purging	3/2013	32.95	14	2.05	1.69	8.26	80	

SAMPLING NOTES / COMMENTS / OBSERVATIONS:

CCA  
CCRMCB

Sampler Name: M. Ress

PROJECT NAME	12313.1 – Midwest Generation - Powerton Station		DATE	2/9/22
Well Name	MW-14	Condition of Well	Good	
Depth to Water (i)	25.67	Total Depth	33.58	
Volume in Well		Volume Removed	1.2 gal	
Method of Purge	Dedicated Pump	Purge Description	<del>light orange</del> orange	
Method of Sample	Dedicated Pump	Sample Description	light orange	
Depth to Water (a)	27.52	Sample Time	9:27	

	Time (CST)	Depth to Water (ft)	Temp (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	ph (SU)	ORP (mV)	Jurb
Initial / Before Purge	9:11	25.67	14.2	2191	7.37	6.86	130.8	2101.57
	9:16		15.4	2006	1.42	6.91	127.8	126.32
	9:21		15.5	2014	1.91	6.91	17.9	21.2
	9:26	27.52	15.4	2070	1.59	6.91	-33.7	8.66
Historic Readings	Date							
Before Purging	12/2012	25.9	15.06	2.06	2	7.13	80	
Before Purging	3/2013	23.5	14.5	1.72	3.88	8.21	127	

SAMPLING NOTES / COMMENTS / OBSERVATIONS:

CCA  
CCA MCB

Sampler Name: M. Preis

PROJECT NAME	12313.1 – Midwest Generation - Powerton Station		DATE	2/9
Well Name	MW-15	Condition of Well	good	
Depth to Water (i)	25.25	Total Depth	32.34	
Volume in Well		Volume Removed	1.2 gal	
Method of Purge	Dedicated Pump	Purge Description	light orange	
Method of Sample	Dedicated Pump	Sample Description	clear	
Depth to Water (a)	26.69	Sample Time	10:56	

	Time (CST)	Depth to Water (ft)	Temp (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	ph (SU)	ORP (mV)	Turb
Initial / Before Purge	10:40	25.25	13.6	2417	6.59	6.85	35.8	24.67
	10:45		15.1	1751	0.84	6.89	-62.5	142.32
	10:50		15.1	1756	0.60	6.90	-94.7	34.16
	10:55	26.69	15.2	1752	0.57	6.91	-109.9	9.38
Historic Readings	Date							
Before Purging	12/2012	24.67	16.25	1.58	0.09	7.3	-90	
Before Purging	3/2013	22.9	13.3	1	0.37	8.09	-87	

SAMPLING NOTES / COMMENTS / OBSERVATIONS:

CCA  
 CCR ABB/ASB  
 CCR MCB

MCB Dups taken

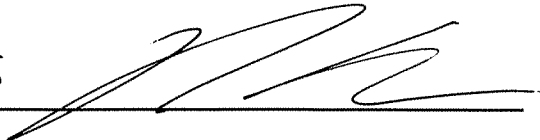
Sampler Name: M. Reiss

PROJECT NAME	12313.1 – Midwest Generation - Powerton Station		DATE	2/7
Well Name	MW-17	Condition of Well	Good	
Depth to Water (i)	22.03	Total Depth		
Volume in Well		Volume Removed	1.2 gal	
Method of Purge	Dedicated Pump	Purge Description	slightly cloudy	
Method of Sample	Dedicated Pump	Sample Description	clear	
Depth to Water (a)	25.35	Sample Time	14:58	

	Time (CST)	Depth to Water (ft)	Temp (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	ph (SU)	ORP (mV)	Turb
Initial / Before Purge	14:42	22.03	14.3	1877	10.1	7.55	60.8	59.34
	14:47		14.3	1842	8.8	7.32	64.4	60.81
	14:52		14.7	1801	6.08	7.26	63.4	21.95
	14:57	25.35	14.8	1799	6.14	7.27	65.7	11.19
Historic Readings	Date							
Before Purging								
Before Purging								

SAMPLING NOTES / COMMENTS / OBSERVATIONS:

Sampler Name:

M. Bess 



PROJECT NAME	12313.1 – Midwest Generation - Powerton Station		DATE 2/7
Well Name	MW-20	Condition of Well	Good
Depth to Water (i)	Top of pump	Total Depth	
Volume in Well		Volume Removed	200 ml
Method of Purge	Dedicated Pump	Purge Description	cloudy
Method of Sample	Dedicated Pump	Sample Description	cloudy
Depth to Water (a)	Top of pump	Sample Time	9:53

	Time (CST)	Depth to Water (ft)	Temp (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	ph (SU)	ORP (mV)	
Initial / Before Purge	9:52	29.83	7.7	2403	4.28	6.67	-106.3	Turb 76.4
Historic Readings	Date							
Before Purging								
Before Purging								

SAMPLING NOTES / COMMENTS / OBSERVATIONS:

Low  
 Used Flow sampling method  
 ① 1 reading  
 ② then sample

Sampler Name: \_\_\_\_\_

PROJECT NAME	12313.1 – Midwest Generation - Powerton Station		DATE	3/1
Well Name	MW-21	Condition of Well	good	
Depth to Water (i)	24.59	Total Depth		
Volume in Well		Volume Removed	0.2 gal	
Method of Purge	Dedicated Pump	Purge Description	Light yellow	
Method of Sample	Dedicated Pump	Sample Description	Light yellow	
Depth to Water (a)	25.46	Sample Time	10:10	

	Time (CST)	Depth to Water (ft)	Temp (°C)	Spec. Cond. (mS/cm)	DO (mg/L)	ph (SU)	ORP (mV)	
Initial / Before Purge	10:10	24.59	13.9	1694	3.50	6.65	-96.1	Turb
	11:18	25.46	14.7	1740	2.70	6.71	-122.6	3240
								7.64
Historic Readings	Date							
Before Purging								
Before Purging								

SAMPLING NOTES / COMMENTS / OBSERVATIONS:

Low Flow method for measuring parameters (i.e. 1st + last purge)

Sampler Name: M. Riss 