

## **DATA SUMMARY POSTING**

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 3<sup>rd</sup> quarter 2021 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables as they will be calculated and proposed as part of the Operating Permit submittals due by October 31, 2021. Upon Illinois Environmental Protection Agency approval of the Operating Permit, the approved comparison values will be included for subsequent data comparisons/evaluations.





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

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/10/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
MW-10	2/23/2021	257.70
	4/9/2021	54.91
	5/11/2021	24.74
	6/2/2021	6.02
	6/28/2021	14.11
	7/19/2021	17.53
	8/24/2021	41.55
	9/30/2021	17.07
MW-02	2/22/2021	19.60
	4/8/2021	4.55
	5/11/2021	1.82
	6/2/2021	2.06
	6/28/2021	2.67
	7/19/2021	3.56
	8/24/2021	5.23
	10/1/2021	2.76
MW-03	2/22/2021	8.20
	4/8/2021	4.00
	5/11/2021	2.68
	6/2/2021	3.63
	6/28/2021	3.32
	7/19/2021	4.22
	8/24/2021	5.75
	10/1/2021	2.45
MW-04	2/22/2021	4.20
	4/8/2021	4.05
	5/11/2021	4.33
	6/2/2021	2.12
	6/28/2021	8.21
	7/19/2021	3.84
	8/24/2021	2.92
	10/1/2021	2.72
MW-05	2/22/2021	1.72
	4/8/2021	4.00
	5/11/2021	1.82
	6/2/2021	1.88
	6/28/2021	3.49
	7/19/2021	8.39
	8/24/2021	3.20
	10/1/2021	3.12

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-204320-1  
Client Project/Site: Powerton FAB CCR  
Revision: 1

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

Attn: Richard Gnat



Authorized for release by:  
10/4/2021 12:09:18 PM

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

### LINKS

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

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



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# Case Narrative

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

Job ID: 500-204320-1

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**Job ID: 500-204320-1**

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**Laboratory: Eurofins TestAmerica, Chicago**

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**Narrative**

**Job Narrative  
500-204320-1**

**Comments**

No additional comments.

**Revision**

The report being provided is a revision of the original report sent on 9/17/2021. The report (revision 1) is being revised due to: Units for Antimony and Beryllium need reported in mg/L.

**Receipt**

The samples were received on 8/25/2021 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.9° C, 5.9° C and 10.8° C.

**Receipt Exceptions**

The following sample(s) was received at the laboratory outside the required temperature criteria: sample #2 MW-01 and sample #3 MW-02 receiving cooler temp 10.8°C. Water present in sample

Units for Antimony and Beryllium need reported in mg/L

**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.



# Method Summary

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

Job ID: 500-204320-1

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

#### Protocol References:

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

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

#### Laboratory References:

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



# Sample Summary

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

Job ID: 500-204320-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-204320-1	MW-10	Water	08/24/21 16:20	08/25/21 15:10
500-204320-2	MW-01	Water	08/24/21 15:07	08/25/21 15:10
500-204320-3	MW-02	Water	08/24/21 13:32	08/25/21 15:10
500-204320-4	Duplicate	Water	08/24/21 00:00	08/25/21 15:10
500-204320-5	MW-03	Water	08/24/21 11:47	08/25/21 15:10
500-204320-6	MW-04	Water	08/24/21 10:33	08/25/21 15:10
500-204320-7	MW-05	Water	08/24/21 09:22	08/25/21 15:10

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

# Client Sample Results

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

Job ID: 500-204320-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-204320-1**

Date Collected: 08/24/21 16:20

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 18:02	1
<b>Arsenic</b>	<b>0.0017</b>		0.0010		mg/L		09/07/21 08:35	09/08/21 18:02	1
<b>Barium</b>	<b>0.24</b>		0.0025		mg/L		09/07/21 08:35	09/08/21 18:02	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:02	1
<b>Boron</b>	<b>0.42</b>		0.050		mg/L		09/07/21 08:35	09/08/21 18:02	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:02	1
<b>Calcium</b>	<b>98</b>		0.20		mg/L		09/07/21 08:35	09/08/21 18:02	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:02	1
<b>Cobalt</b>	<b>0.0082</b>		0.0010		mg/L		09/07/21 08:35	09/08/21 18:02	1
<b>Lead</b>	<b>0.0020</b>		0.00050		mg/L		09/07/21 08:35	09/08/21 18:02	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:02	1
<b>Selenium</b>	<b>0.0051</b>		0.0025		mg/L		09/07/21 08:35	09/08/21 18:02	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:52	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>420</b>		10		mg/L			08/26/21 03:40	1
<b>Chloride</b>	<b>53</b>		4.0		mg/L			09/10/21 15:30	2
<b>Fluoride</b>	<b>0.21</b>		0.10		mg/L			09/10/21 12:50	1
<b>Sulfate</b>	<b>46</b>		10		mg/L			09/16/21 14:40	2

# Client Sample Results

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

Job ID: 500-204320-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-204320-2**

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 18:19	1
Arsenic	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:19	1
<b>Barium</b>	<b>0.061</b>		0.0025		mg/L		09/07/21 08:35	09/08/21 18:19	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:19	1
<b>Boron</b>	<b>0.27</b>		0.050		mg/L		09/07/21 08:35	09/08/21 18:19	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:19	1
<b>Calcium</b>	<b>99</b>		0.20		mg/L		09/07/21 08:35	09/08/21 18:19	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:19	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:19	1
<b>Lead</b>	<b>0.00088</b>		0.00050		mg/L		09/07/21 08:35	09/08/21 18:19	1
<b>Molybdenum</b>	<b>0.0070</b>		0.0050		mg/L		09/07/21 08:35	09/08/21 18:19	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:19	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:54	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>430</b>		10		mg/L			08/26/21 03:43	1
<b>Chloride</b>	<b>40</b>		4.0		mg/L			09/10/21 15:31	2
<b>Fluoride</b>	<b>0.18</b>		0.10		mg/L			09/10/21 12:59	1
<b>Sulfate</b>	<b>56</b>		25		mg/L			09/16/21 15:21	5

# Client Sample Results

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

Job ID: 500-204320-1

**Client Sample ID: MW-02**

**Lab Sample ID: 500-204320-3**

Date Collected: 08/24/21 13:32

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 18:23	1
<b>Arsenic</b>	<b>0.0014</b>		0.0010		mg/L		09/07/21 08:35	09/08/21 18:23	1
<b>Barium</b>	<b>0.073</b>		0.0025		mg/L		09/07/21 08:35	09/08/21 18:23	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:23	1
<b>Boron</b>	<b>0.63</b>		0.050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:23	1
<b>Calcium</b>	<b>94</b>		0.20		mg/L		09/07/21 08:35	09/08/21 18:23	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:23	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:23	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 09:10	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>340</b>		10		mg/L			08/26/21 03:46	1
<b>Chloride</b>	<b>47</b>		4.0		mg/L			09/10/21 15:32	2
<b>Fluoride</b>	<b>0.17</b>		0.10		mg/L			09/10/21 13:02	1
<b>Sulfate</b>	<b>56</b>		25		mg/L			09/16/21 15:21	5

# Client Sample Results

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

Job ID: 500-204320-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-204320-4**

Date Collected: 08/24/21 00:00

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 18:26	1
<b>Arsenic</b>	<b>0.0013</b>		0.0010		mg/L		09/07/21 08:35	09/08/21 18:26	1
<b>Barium</b>	<b>0.072</b>		0.0025		mg/L		09/07/21 08:35	09/08/21 18:26	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:26	1
<b>Boron</b>	<b>0.43</b>		0.050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:26	1
<b>Calcium</b>	<b>81</b>		0.20		mg/L		09/07/21 08:35	09/08/21 18:26	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:26	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:26	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 09:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>440</b>		10		mg/L			08/26/21 03:48	1
<b>Chloride</b>	<b>48</b>		2.0		mg/L			09/10/21 15:32	1
<b>Fluoride</b>	<b>0.25</b>		0.10		mg/L			09/10/21 13:05	1
<b>Sulfate</b>	<b>33</b>		5.0		mg/L			09/16/21 15:24	1

# Client Sample Results

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

Job ID: 500-204320-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-204320-5**

Date Collected: 08/24/21 11:47

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 18:37	1
<b>Arsenic</b>	<b>0.0012</b>		0.0010		mg/L		09/07/21 08:35	09/08/21 18:37	1
<b>Barium</b>	<b>0.072</b>		0.0025		mg/L		09/07/21 08:35	09/08/21 18:37	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:37	1
<b>Boron</b>	<b>0.41</b>		0.050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:37	1
<b>Calcium</b>	<b>81</b>		0.20		mg/L		09/07/21 08:35	09/08/21 18:37	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:37	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:37	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 09:15	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>310</b>		10		mg/L			08/26/21 03:51	1
<b>Chloride</b>	<b>46</b>		4.0		mg/L			09/10/21 15:32	2
<b>Fluoride</b>	<b>0.25</b>		0.10		mg/L			09/10/21 13:18	1
<b>Sulfate</b>	<b>32</b>		5.0		mg/L			09/16/21 15:15	1

# Client Sample Results

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

Job ID: 500-204320-1

**Client Sample ID: MW-04**

**Lab Sample ID: 500-204320-6**

Date Collected: 08/24/21 10:33

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 18:41	1
Arsenic	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:41	1
<b>Barium</b>	<b>0.024</b>		0.0025		mg/L		09/07/21 08:35	09/08/21 18:41	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:41	1
<b>Boron</b>	<b>0.72</b>		0.050		mg/L		09/07/21 08:35	09/08/21 18:41	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:41	1
<b>Calcium</b>	<b>78</b>		0.20		mg/L		09/07/21 08:35	09/08/21 18:41	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:41	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:41	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:41	1
<b>Molybdenum</b>	<b>0.014</b>		0.0050		mg/L		09/07/21 08:35	09/08/21 18:41	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:41	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 09:17	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>100</b>		10		mg/L			08/26/21 03:53	1
<b>Chloride</b>	<b>48</b>		4.0		mg/L			09/10/21 15:33	2
<b>Fluoride</b>	<b>0.34</b>		0.10		mg/L			09/10/21 13:22	1
<b>Sulfate</b>	<b>15</b>		5.0		mg/L			09/16/21 15:16	1

# Client Sample Results

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

Job ID: 500-204320-1

**Client Sample ID: MW-05**

**Lab Sample ID: 500-204320-7**

Date Collected: 08/24/21 09:22

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 19:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 18:44	1
Arsenic	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:44	1
<b>Barium</b>	<b>0.041</b>		0.0025		mg/L		09/07/21 08:35	09/08/21 18:44	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:44	1
<b>Boron</b>	<b>0.55</b>		0.050		mg/L		09/07/21 08:35	09/08/21 18:44	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:44	1
<b>Calcium</b>	<b>88</b>		0.20		mg/L		09/07/21 08:35	09/08/21 18:44	1
<b>Chromium</b>	<b>0.0070</b>		0.0050		mg/L		09/07/21 08:35	09/08/21 18:44	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:44	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:44	1
<b>Molybdenum</b>	<b>0.0073</b>		0.0050		mg/L		09/07/21 08:35	09/08/21 18:44	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:44	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 09:19	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>500</b>		10		mg/L			08/26/21 03:56	1
<b>Chloride</b>	<b>69</b>		10		mg/L			09/10/21 15:34	5
<b>Fluoride</b>	<b>0.32</b>		0.10		mg/L			09/10/21 13:25	1
<b>Sulfate</b>	<b>99</b>		25		mg/L			09/16/21 15:16	5



# Definitions/Glossary

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

Job ID: 500-204320-1

## Qualifiers

### Metals

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

## 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 FAB CCR

Job ID: 500-204320-1

## Metals

### Prep Batch: 616696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	7470A	
500-204320-2	MW-01	Total/NA	Water	7470A	
500-204320-3	MW-02	Total/NA	Water	7470A	
500-204320-4	Duplicate	Total/NA	Water	7470A	
500-204320-5	MW-03	Total/NA	Water	7470A	
500-204320-6	MW-04	Total/NA	Water	7470A	
500-204320-7	MW-05	Total/NA	Water	7470A	
MB 500-616696/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-616696/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-204320-2 MS	MW-01	Total/NA	Water	7470A	
500-204320-2 MSD	MW-01	Total/NA	Water	7470A	
500-204320-2 DU	MW-01	Total/NA	Water	7470A	

### Analysis Batch: 616923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	7470A	616696
500-204320-2	MW-01	Total/NA	Water	7470A	616696
500-204320-3	MW-02	Total/NA	Water	7470A	616696
500-204320-4	Duplicate	Total/NA	Water	7470A	616696
500-204320-5	MW-03	Total/NA	Water	7470A	616696
500-204320-6	MW-04	Total/NA	Water	7470A	616696
500-204320-7	MW-05	Total/NA	Water	7470A	616696
MB 500-616696/12-A	Method Blank	Total/NA	Water	7470A	616696
LCS 500-616696/13-A	Lab Control Sample	Total/NA	Water	7470A	616696
500-204320-2 MS	MW-01	Total/NA	Water	7470A	616696
500-204320-2 MSD	MW-01	Total/NA	Water	7470A	616696
500-204320-2 DU	MW-01	Total/NA	Water	7470A	616696

### Prep Batch: 617441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total Recoverable	Water	3005A	
500-204320-2	MW-01	Total Recoverable	Water	3005A	
500-204320-3	MW-02	Total Recoverable	Water	3005A	
500-204320-4	Duplicate	Total Recoverable	Water	3005A	
500-204320-5	MW-03	Total Recoverable	Water	3005A	
500-204320-6	MW-04	Total Recoverable	Water	3005A	
500-204320-7	MW-05	Total Recoverable	Water	3005A	
MB 500-617441/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-617441/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-204320-1 MS	MW-10	Total Recoverable	Water	3005A	
500-204320-1 MSD	MW-10	Total Recoverable	Water	3005A	
500-204320-1 DU	MW-10	Total Recoverable	Water	3005A	

### Analysis Batch: 617834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total Recoverable	Water	6010C	617441
500-204320-2	MW-01	Total Recoverable	Water	6010C	617441
500-204320-3	MW-02	Total Recoverable	Water	6010C	617441
500-204320-4	Duplicate	Total Recoverable	Water	6010C	617441
500-204320-5	MW-03	Total Recoverable	Water	6010C	617441
500-204320-6	MW-04	Total Recoverable	Water	6010C	617441

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# QC Association Summary

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

Job ID: 500-204320-1

## Metals (Continued)

### Analysis Batch: 617834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-7	MW-05	Total Recoverable	Water	6010C	617441
MB 500-617441/1-A	Method Blank	Total Recoverable	Water	6010C	617441
LCS 500-617441/2-A	Lab Control Sample	Total Recoverable	Water	6010C	617441
500-204320-1 MS	MW-10	Total Recoverable	Water	6010C	617441
500-204320-1 MSD	MW-10	Total Recoverable	Water	6010C	617441
500-204320-1 DU	MW-10	Total Recoverable	Water	6010C	617441

### Analysis Batch: 617878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total Recoverable	Water	6020A	617441
500-204320-2	MW-01	Total Recoverable	Water	6020A	617441
500-204320-3	MW-02	Total Recoverable	Water	6020A	617441
500-204320-4	Duplicate	Total Recoverable	Water	6020A	617441
500-204320-5	MW-03	Total Recoverable	Water	6020A	617441
500-204320-6	MW-04	Total Recoverable	Water	6020A	617441
500-204320-7	MW-05	Total Recoverable	Water	6020A	617441
MB 500-617441/1-A	Method Blank	Total Recoverable	Water	6020A	617441
LCS 500-617441/2-A	Lab Control Sample	Total Recoverable	Water	6020A	617441
500-204320-1 MS	MW-10	Total Recoverable	Water	6020A	617441
500-204320-1 MSD	MW-10	Total Recoverable	Water	6020A	617441
500-204320-1 DU	MW-10	Total Recoverable	Water	6020A	617441

## General Chemistry

### Analysis Batch: 615895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	SM 2540C	
500-204320-2	MW-01	Total/NA	Water	SM 2540C	
500-204320-3	MW-02	Total/NA	Water	SM 2540C	
500-204320-4	Duplicate	Total/NA	Water	SM 2540C	
500-204320-5	MW-03	Total/NA	Water	SM 2540C	
500-204320-6	MW-04	Total/NA	Water	SM 2540C	
500-204320-7	MW-05	Total/NA	Water	SM 2540C	
MB 500-615895/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-615895/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 618117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	SM 4500 F C	
500-204320-2	MW-01	Total/NA	Water	SM 4500 F C	
500-204320-3	MW-02	Total/NA	Water	SM 4500 F C	
500-204320-4	Duplicate	Total/NA	Water	SM 4500 F C	
500-204320-5	MW-03	Total/NA	Water	SM 4500 F C	
500-204320-6	MW-04	Total/NA	Water	SM 4500 F C	
500-204320-7	MW-05	Total/NA	Water	SM 4500 F C	
MB 500-618117/29	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-618117/30	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-204320-1 MS	MW-10	Total/NA	Water	SM 4500 F C	
500-204320-1 MSD	MW-10	Total/NA	Water	SM 4500 F C	

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# QC Association Summary

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

Job ID: 500-204320-1

## General Chemistry

### Analysis Batch: 618135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-204320-2	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-204320-3	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-204320-4	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-204320-5	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-204320-6	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-204320-7	MW-05	Total/NA	Water	SM 4500 Cl- E	
MB 500-618135/39	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-618135/40	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-204320-1 MS	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-204320-1 MSD	MW-10	Total/NA	Water	SM 4500 Cl- E	

### Analysis Batch: 618960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-204320-2	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-204320-3	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-204320-4	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-204320-5	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-204320-6	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-204320-7	MW-05	Total/NA	Water	SM 4500 SO4 E	
MB 500-618960/46	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-618960/85	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-618960/49	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-618960/90	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-204320-1 MS	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-204320-1 MSD	MW-10	Total/NA	Water	SM 4500 SO4 E	

# QC Sample Results

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

Job ID: 500-204320-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-617441/1-A**  
**Matrix: Water**  
**Analysis Batch: 617834**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 17:56	1

**Lab Sample ID: LCS 500-617441/2-A**  
**Matrix: Water**  
**Analysis Batch: 617834**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.750	0.754		mg/L		101	80 - 120

**Lab Sample ID: 500-204320-1 MS**  
**Matrix: Water**  
**Analysis Batch: 617834**

**Client Sample ID: MW-10**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	<0.010		0.750	0.780		mg/L		104	75 - 125

**Lab Sample ID: 500-204320-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 617834**

**Client Sample ID: MW-10**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	<0.010		0.750	0.735		mg/L		98	75 - 125	6	20

**Lab Sample ID: 500-204320-1 DU**  
**Matrix: Water**  
**Analysis Batch: 617834**

**Client Sample ID: MW-10**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.010		<0.010		mg/L		NC	20

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

**Lab Sample ID: MB 500-617441/1-A**  
**Matrix: Water**  
**Analysis Batch: 617878**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 17:55	1
Arsenic	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 17:55	1
Barium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 17:55	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 17:55	1
Boron	<0.050		0.050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Calcium	<0.20		0.20		mg/L		09/07/21 08:35	09/08/21 17:55	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 17:55	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 17:55	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 17:55	1

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# QC Sample Results

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

Job ID: 500-204320-1

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

**Lab Sample ID: LCS 500-617441/2-A**  
**Matrix: Water**  
**Analysis Batch: 617878**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.750	0.780		mg/L		104	80 - 120
Arsenic	0.150	0.144		mg/L		96	80 - 120
Barium	3.00	2.97		mg/L		99	80 - 120
Beryllium	0.0750	0.0744		mg/L		99	80 - 120
Boron	1.50	1.40		mg/L		93	80 - 120
Cadmium	0.0750	0.0734		mg/L		98	80 - 120
Calcium	15.0	15.0		mg/L		100	80 - 120
Chromium	0.300	0.294		mg/L		98	80 - 120
Cobalt	0.750	0.745		mg/L		99	80 - 120
Lead	0.150	0.161		mg/L		108	80 - 120
Molybdenum	1.50	1.45		mg/L		97	80 - 120
Selenium	0.150	0.146		mg/L		97	80 - 120
Thallium	0.150	0.158		mg/L		105	80 - 120

**Lab Sample ID: 500-204320-1 MS**  
**Matrix: Water**  
**Analysis Batch: 617878**

**Client Sample ID: MW-10**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0030		0.750	0.795		mg/L		106	75 - 125
Arsenic	0.0017		0.150	0.149		mg/L		98	75 - 125
Barium	0.24		3.00	3.10		mg/L		95	75 - 125
Beryllium	<0.0010		0.0750	0.0688		mg/L		92	75 - 125
Boron	0.42		1.50	1.73		mg/L		87	75 - 125
Cadmium	<0.00050		0.0750	0.0727		mg/L		97	75 - 125
Calcium	98		15.0	107	4	mg/L		58	75 - 125
Chromium	<0.0050		0.300	0.283		mg/L		93	75 - 125
Cobalt	0.0082		0.750	0.702		mg/L		93	75 - 125
Lead	0.0020		0.150	0.158		mg/L		104	75 - 125
Molybdenum	<0.0050		1.50	1.49		mg/L		100	75 - 125
Selenium	0.0051		0.150	0.153		mg/L		98	75 - 125
Thallium	<0.0020		0.150	0.151		mg/L		101	75 - 125

**Lab Sample ID: 500-204320-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 617878**

**Client Sample ID: MW-10**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.750	0.757		mg/L		101	75 - 125	5	20
Arsenic	0.0017		0.150	0.141		mg/L		93	75 - 125	6	20
Barium	0.24		3.00	2.94		mg/L		90	75 - 125	5	20
Beryllium	<0.0010		0.0750	0.0650		mg/L		87	75 - 125	6	20
Boron	0.42		1.50	1.67		mg/L		83	75 - 125	3	20
Cadmium	<0.00050		0.0750	0.0692		mg/L		92	75 - 125	5	20
Calcium	98		15.0	106	4	mg/L		53	75 - 125	1	20
Chromium	<0.0050		0.300	0.270		mg/L		89	75 - 125	5	20
Cobalt	0.0082		0.750	0.671		mg/L		88	75 - 125	5	20
Lead	0.0020		0.150	0.149		mg/L		98	75 - 125	6	20
Molybdenum	<0.0050		1.50	1.42		mg/L		95	75 - 125	5	20

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# QC Sample Results

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

Job ID: 500-204320-1

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

**Lab Sample ID: 500-204320-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 617878**

**Client Sample ID: MW-10**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	0.0051		0.150	0.145		mg/L		93	75 - 125	5	20
Thallium	<0.0020		0.150	0.145		mg/L		97	75 - 125	4	20

**Lab Sample ID: 500-204320-1 DU**  
**Matrix: Water**  
**Analysis Batch: 617878**

**Client Sample ID: MW-10**  
**Prep Type: Total Recoverable**  
**Prep Batch: 617441**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0017		0.00163		mg/L		3	20
Barium	0.24		0.235		mg/L		3	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.42		0.413		mg/L		3	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	98		96.5		mg/L		1	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	0.0082		0.00795		mg/L		3	20
Lead	0.0020		0.00191		mg/L		5	20
Molybdenum	<0.0050		<0.0050		mg/L		NC	20
Selenium	0.0051		0.00495		mg/L		2	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-616696/12-A**  
**Matrix: Water**  
**Analysis Batch: 616923**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 616696**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:29	1

**Lab Sample ID: LCS 500-616696/13-A**  
**Matrix: Water**  
**Analysis Batch: 616923**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 616696**

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

**Lab Sample ID: 500-204320-2 MS**  
**Matrix: Water**  
**Analysis Batch: 616923**

**Client Sample ID: MW-01**  
**Prep Type: Total/NA**  
**Prep Batch: 616696**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00103		mg/L		103	75 - 125

# QC Sample Results

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

Job ID: 500-204320-1

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

Lab Sample ID: 500-204320-2 MSD  
Matrix: Water  
Analysis Batch: 616923

Client Sample ID: MW-01  
Prep Type: Total/NA  
Prep Batch: 616696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000988		mg/L		99	75 - 125	4	20

Lab Sample ID: 500-204320-2 DU  
Matrix: Water  
Analysis Batch: 616923

Client Sample ID: MW-01  
Prep Type: Total/NA  
Prep Batch: 616696

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

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

Lab Sample ID: MB 500-615895/1  
Matrix: Water  
Analysis Batch: 615895

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			08/26/21 02:57	1

Lab Sample ID: LCS 500-615895/2  
Matrix: Water  
Analysis Batch: 615895

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	264		mg/L		106	80 - 120

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

Lab Sample ID: MB 500-618135/39  
Matrix: Water  
Analysis Batch: 618135

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			09/10/21 15:29	1

Lab Sample ID: LCS 500-618135/40  
Matrix: Water  
Analysis Batch: 618135

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

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

Lab Sample ID: 500-204320-1 MS  
Matrix: Water  
Analysis Batch: 618135

Client Sample ID: MW-10  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Chloride	53		20.0	70.7		mg/L		88	75 - 125



# QC Sample Results

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

Job ID: 500-204320-1

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

Lab Sample ID: 500-204320-1 MSD  
Matrix: Water  
Analysis Batch: 618135

Client Sample ID: MW-10  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	53		20.0	70.8		mg/L		89	75 - 125	0	20

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-618117/29  
Matrix: Water  
Analysis Batch: 618117

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			09/10/21 12:45	1

Lab Sample ID: LCS 500-618117/30  
Matrix: Water  
Analysis Batch: 618117

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

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

Lab Sample ID: 500-204320-1 MS  
Matrix: Water  
Analysis Batch: 618117

Client Sample ID: MW-10  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.21		5.00	5.47		mg/L		105	75 - 125

Lab Sample ID: 500-204320-1 MSD  
Matrix: Water  
Analysis Batch: 618117

Client Sample ID: MW-10  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.21		5.00	5.49		mg/L		106	75 - 125	0	20

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

Lab Sample ID: MB 500-618960/46  
Matrix: Water  
Analysis Batch: 618960

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			09/16/21 14:36	1

Lab Sample ID: MB 500-618960/85  
Matrix: Water  
Analysis Batch: 618960

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			09/16/21 15:16	1

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# QC Sample Results

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

Job ID: 500-204320-1

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

**Lab Sample ID: LCS 500-618960/49**  
**Matrix: Water**  
**Analysis Batch: 618960**

**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	20.5		mg/L		103	88 - 123

**Lab Sample ID: LCS 500-618960/90**  
**Matrix: Water**  
**Analysis Batch: 618960**

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

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

**Lab Sample ID: 500-204320-1 MS**  
**Matrix: Water**  
**Analysis Batch: 618960**

**Client Sample ID: MW-10**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	46		20.0	66.5		mg/L		102	75 - 125

**Lab Sample ID: 500-204320-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 618960**

**Client Sample ID: MW-10**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	46		20.0	66.6		mg/L		103	75 - 125	0	20

**TestAmerica Chicago**

2417 Bond Street

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

**Chain of Custody Record**



**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other

500-204320 COC

<b>Client Contact</b>		<b>Project Manager: Rich Gnat</b>		<b>Site Contact: Mitchel Dolan</b>		<b>COC No</b>	
KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154		Tel/Fax: (262) 781-0475		Lab Contact: Diana Mockler		Carrier: _____	
(262) 781-0475 Phone (262) 781-0478 FAX		<b>Analysis Turnaround Time</b>		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903.0 904.0 Radium 226/228 + Combine 6020A, 7470A 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CLE - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		_____ of _____ COCs	
Project Name Powerton FAB CCR		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Sampler: _____	
Site Powerton Station - Pekin IL						For Lab Use Only: Walk-in Client _____ Lab Sampling _____	
P O # 4501908159						Job / SDG No 500 204320	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0 904.0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CLE - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
1 MW-10	8/24	16:10	G	W	7	N	N	X	X	X	X	X	X	X	
2 MW-01	8/24	15:07				N	N								
3 MW-02		13:32													
4 DUP															
5 MW-03		11:47													
6 MW-04		10:33													
7 MW-05		9:22													

**Preservation Used:** 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**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 & Comments. Lab Project #50011612.**  
 CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium

Custody Seals Intact  Yes  No

Custody Seal No 1679170, 1679171, 1679168, 1679172, 1679173

Cooler Temp (°C) Obs'd 49, 108, 5.9

Relinquished by <del>Mitchel Dolan</del> Michael Bess	Company KPRG	Date/Time 8/24/18	Received by FedEx	Company	Date/Time
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by <i>Stephanie Hernandez</i>	Company EIA-GHI	Date/Time 8/25/21 1510

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

ORIGIN ID:PIAA (262) 622-1143  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 24AUG21  
ACTWGT: 52.80 LB  
6994780/96FE2202  
13x13 IN

Part #: 13209348  
DYNAMIC 04/22

651

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EUROFINS TEST A  
2417 BOND ST

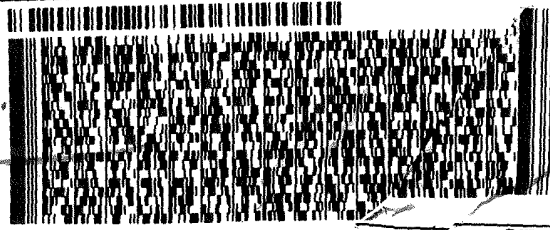
16:30 A  
940  
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500-204320 Wayb

UNIVERSITY PARK IL 60484

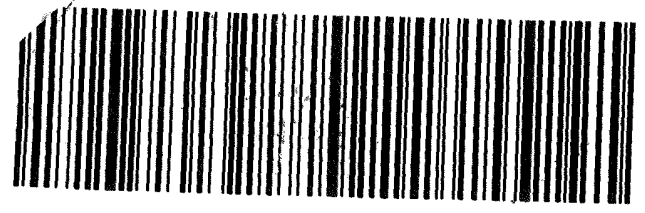
(708) 684-5211 REF: DEPT:  
INU: PG:



WED - 25 AUG 4:30P  
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ORIGIN ID:PIAA (262) 622-1143  
M'KE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 24AUG21  
ACTWGT: 52.80 LB  
CAD: 6994780/SSFEL  
DIMS: 24x13x13 IN

BILL THIRD PARTY

**EUROFINS TEST AMERICA**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

**UNIVERSITY PARK IL 60484**

(700) 684-6211 REF:

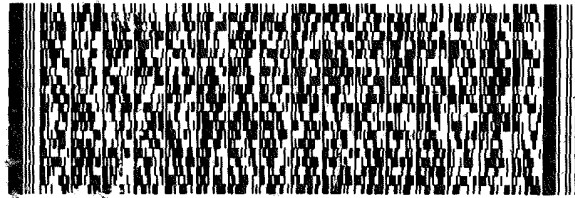
INU:

PG:

REF:

DEPT

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**STANDARD OVERNIGHT**

**AHS**

**60484**

**'90**

ID:PIAA (262) 622-1143  
ESS  
AND ASSOCIATES  
LAZA DR STE 106  
MONT, IL 60559  
UNITED STATES US

SHIP DATE: 24AUG21  
ACTWGT: 52.80 LB  
CAD: 6994780/SSFE2202  
DIMS: 24x13x13 IN  
BILL THIRD PARTY

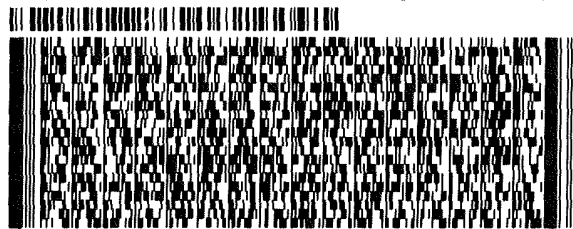
Part # 156291439EPRNDVUS-EXP C1/22

TO EUROFINS TRADING AMERICA  
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UNIVERSITY

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MPS# 2829 3420 9413  
0263

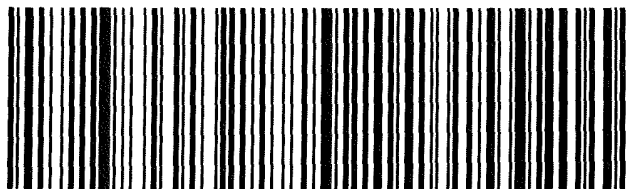
Mstr# 2829 3420 9402

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WED - 25 AUG 4:30P  
STANDARD OVERNIGHT

AHS  
60484  
IL-US ORD



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## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204320-1

**Login Number: 204320**

**List Source: Eurofins TestAmerica, 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	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	4.9,10.8,5.9
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 FAB CCR

Job ID: 500-204320-1

**Client Sample ID: MW-10**

**Date Collected: 08/24/21 16:20**

**Date Received: 08/25/21 15:10**

**Lab Sample ID: 500-204320-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:12	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:02	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:40	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	618135	09/10/21 15:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 12:50	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	618960	09/16/21 14:40	RES	TAL CHI

**Client Sample ID: MW-01**

**Date Collected: 08/24/21 15:07**

**Date Received: 08/25/21 15:10**

**Lab Sample ID: 500-204320-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:33	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:19	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:54	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	618135	09/10/21 15:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 12:59	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:21	RES	TAL CHI

**Client Sample ID: MW-02**

**Date Collected: 08/24/21 13:32**

**Date Received: 08/25/21 15:10**

**Lab Sample ID: 500-204320-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:37	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:23	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:10	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:46	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	618135	09/10/21 15:32	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:21	RES	TAL CHI



# Lab Chronicle

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

Job ID: 500-204320-1

## Client Sample ID: Duplicate

Date Collected: 08/24/21 00:00

Date Received: 08/25/21 15:10

## Lab Sample ID: 500-204320-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:41	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:26	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:13	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	618135	09/10/21 15:32	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	618960	09/16/21 15:24	RES	TAL CHI

## Client Sample ID: MW-03

Date Collected: 08/24/21 11:47

Date Received: 08/25/21 15:10

## Lab Sample ID: 500-204320-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:45	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:37	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:15	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:51	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	618135	09/10/21 15:32	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	618960	09/16/21 15:15	RES	TAL CHI

## Client Sample ID: MW-04

Date Collected: 08/24/21 10:33

Date Received: 08/25/21 15:10

## Lab Sample ID: 500-204320-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:49	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:41	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:53	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	618135	09/10/21 15:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:22	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	618960	09/16/21 15:16	RES	TAL CHI

# Lab Chronicle

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

Job ID: 500-204320-1

**Client Sample ID: MW-05**

**Date Collected: 08/24/21 09:22**

**Date Received: 08/25/21 15:10**

**Lab Sample ID: 500-204320-7**

**Matrix: Water**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 19:01	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:44	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:19	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:56	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	618135	09/10/21 15:34	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:16	RES	TAL CHI

#### Laboratory References:

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

# Accreditation/Certification Summary

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

Job ID: 500-204320-1

## Laboratory: Eurofins TestAmerica, Chicago

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

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

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## ANALYTICAL REPORT

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

Laboratory Job ID: 500-204320-2  
Client Project/Site: Powerton FAB CCR

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

Attn: Richard Gnat



Authorized for release by:  
9/25/2021 7:59:57 AM

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

### LINKS

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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.*

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# Case Narrative

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

Job ID: 500-204320-2

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## Job ID: 500-204320-2

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Laboratory: Eurofins TestAmerica, Chicago

### Narrative

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#### Job Narrative 500-204320-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/25/2021 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.9° C, 5.9° C and 10.8° C.

#### Receipt Exceptions

The following sample(s) was received at the laboratory outside the required temperature criteria: sample #2 MW-01 and sample #3 MW-02 receiving cooler temp 10.8°C. Water present in sample

#### RAD

Method 903.0: Radium-226 Batch 525036

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-10 (500-204320-1), MW-01 (500-204320-2), MW-02 (500-204320-3), Duplicate (500-204320-4), MW-03 (500-204320-5), MW-04 (500-204320-6), MW-05 (500-204320-7), (LCS 160-525036/1-A), (MB 160-525036/25-A), (680-203279-D-7-C), (680-203279-E-7-A MS), (680-203279-D-7-D MSD) and (500-204320-F-4-A DU)

Method 904.0: Radium-228 Batch 525045

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-10 (500-204320-1), MW-01 (500-204320-2), MW-02 (500-204320-3), Duplicate (500-204320-4), MW-03 (500-204320-5), MW-04 (500-204320-6), MW-05 (500-204320-7), (LCS 160-525045/1-A), (MB 160-525045/25-A), (680-203279-D-7-E), (680-203279-E-7-C MS), (680-203279-D-7-F MSD) and (500-204320-F-4-B DU)

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 FAB CCR

Job ID: 500-204320-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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

# Sample Summary

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

Job ID: 500-204320-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-204320-1	MW-10	Water	08/24/21 16:20	08/25/21 15:10
500-204320-2	MW-01	Water	08/24/21 15:07	08/25/21 15:10
500-204320-3	MW-02	Water	08/24/21 13:32	08/25/21 15:10
500-204320-4	Duplicate	Water	08/24/21 00:00	08/25/21 15:10
500-204320-5	MW-03	Water	08/24/21 11:47	08/25/21 15:10
500-204320-6	MW-04	Water	08/24/21 10:33	08/25/21 15:10
500-204320-7	MW-05	Water	08/24/21 09:22	08/25/21 15:10

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# Client Sample Results

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

Job ID: 500-204320-2

**Client Sample ID: MW-10**  
Date Collected: 08/24/21 16:20  
Date Received: 08/25/21 15:10

**Lab Sample ID: 500-204320-1**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.280	U	0.293	0.294	1.00	0.469	pCi/L	09/01/21 09:36	09/23/21 08:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					09/01/21 09:36	09/23/21 08:13	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	0.358	U	0.365	0.366	1.00	0.593	pCi/L	09/01/21 11:11	09/22/21 13:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.7		40 - 110					09/01/21 11:11	09/22/21 13:47	1
Y Carrier	79.6		40 - 110					09/01/21 11:11	09/22/21 13:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.638</b>		0.468	0.469	5.00	0.593	pCi/L		09/24/21 16:58	1

# Client Sample Results

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

Job ID: 500-204320-2

**Client Sample ID: MW-01**  
Date Collected: 08/24/21 15:07  
Date Received: 08/25/21 15:10

**Lab Sample ID: 500-204320-2**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.180	0.180	1.00	0.311	pCi/L	09/01/21 09:36	09/23/21 08:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/01/21 09:36	09/23/21 08:13	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	0.227	U	0.280	0.280	1.00	0.463	pCi/L	09/01/21 11:11	09/22/21 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					09/01/21 11:11	09/22/21 13:48	1
Y Carrier	81.9		40 - 110					09/01/21 11:11	09/22/21 13:48	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	0.340	U	0.333	0.333	5.00	0.463	pCi/L		09/24/21 16:58	1

# Client Sample Results

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

Job ID: 500-204320-2

**Client Sample ID: MW-02**

**Lab Sample ID: 500-204320-3**

Date Collected: 08/24/21 13:32

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0757	U	0.180	0.180	1.00	0.324	pCi/L	09/01/21 09:36	09/23/21 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					09/01/21 09:36	09/23/21 08:14	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	0.142	U	0.277	0.277	1.00	0.470	pCi/L	09/01/21 11:11	09/22/21 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					09/01/21 11:11	09/22/21 13:48	1
Y Carrier	86.0		40 - 110					09/01/21 11:11	09/22/21 13:48	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	0.217	U	0.330	0.330	5.00	0.470	pCi/L		09/24/21 16:58	1

# Client Sample Results

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

Job ID: 500-204320-2

**Client Sample ID: Duplicate**  
Date Collected: 08/24/21 00:00  
Date Received: 08/25/21 15:10

**Lab Sample ID: 500-204320-4**  
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	0.323	U	0.233	0.235	1.00	0.342	pCi/L	09/01/21 09:36	09/23/21 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					09/01/21 09:36	09/23/21 08:14	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	0.0578	U	0.287	0.287	1.00	0.502	pCi/L	09/01/21 11:11	09/22/21 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					09/01/21 11:11	09/22/21 13:48	1
Y Carrier	76.3		40 - 110					09/01/21 11:11	09/22/21 13:48	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	0.381	U	0.370	0.371	5.00	0.502	pCi/L		09/24/21 16:58	1

# Client Sample Results

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

Job ID: 500-204320-2

**Client Sample ID: MW-03**

**Lab Sample ID: 500-204320-5**

Date Collected: 08/24/21 11:47

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0343	U	0.186	0.186	1.00	0.371	pCi/L	09/01/21 09:36	09/23/21 08:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/01/21 09:36	09/23/21 08:14	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	-0.0146	U	0.246	0.246	1.00	0.444	pCi/L	09/01/21 11:11	09/22/21 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/01/21 11:11	09/22/21 13:48	1
Y Carrier	80.7		40 - 110					09/01/21 11:11	09/22/21 13:48	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	-0.0489	U	0.308	0.308	5.00	0.444	pCi/L		09/24/21 16:58	1

# Client Sample Results

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

Job ID: 500-204320-2

**Client Sample ID: MW-04**  
Date Collected: 08/24/21 10:33  
Date Received: 08/25/21 15:10

**Lab Sample ID: 500-204320-6**  
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	-0.241	U	0.109	0.111	1.00	0.337	pCi/L	09/01/21 09:36	09/23/21 08:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/01/21 09:36	09/23/21 08:15	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	0.304	U	0.267	0.268	1.00	0.427	pCi/L	09/01/21 11:11	09/22/21 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.8		40 - 110					09/01/21 11:11	09/22/21 13:48	1
Y Carrier	83.0		40 - 110					09/01/21 11:11	09/22/21 13:48	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	0.0625	U	0.288	0.290	5.00	0.427	pCi/L		09/24/21 16:58	1

# Client Sample Results

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

Job ID: 500-204320-2

**Client Sample ID: MW-05**

**Lab Sample ID: 500-204320-7**

Date Collected: 08/24/21 09:22

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0691	U	0.179	0.179	1.00	0.326	pCi/L	09/01/21 09:36	09/23/21 08:15	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					09/01/21 09:36	09/23/21 08:15	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>0.794</b>		0.305	0.314	1.00	0.420	pCi/L	09/01/21 11:11	09/22/21 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.7		40 - 110					09/01/21 11:11	09/22/21 13:48	1
Y Carrier	86.7		40 - 110					09/01/21 11:11	09/22/21 13:48	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>0.863</b>		0.354	0.361	5.00	0.420	pCi/L		09/24/21 16:58	1

# Definitions/Glossary

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

Job ID: 500-204320-2

## 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 FAB CCR

Job ID: 500-204320-2

## Rad

### Prep Batch: 525036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	PrecSep-21	
500-204320-2	MW-01	Total/NA	Water	PrecSep-21	
500-204320-3	MW-02	Total/NA	Water	PrecSep-21	
500-204320-4	Duplicate	Total/NA	Water	PrecSep-21	
500-204320-5	MW-03	Total/NA	Water	PrecSep-21	
500-204320-6	MW-04	Total/NA	Water	PrecSep-21	
500-204320-7	MW-05	Total/NA	Water	PrecSep-21	
MB 160-525036/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525036/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-204320-4 DU	Duplicate	Total/NA	Water	PrecSep-21	

### Prep Batch: 525045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	PrecSep_0	
500-204320-2	MW-01	Total/NA	Water	PrecSep_0	
500-204320-3	MW-02	Total/NA	Water	PrecSep_0	
500-204320-4	Duplicate	Total/NA	Water	PrecSep_0	
500-204320-5	MW-03	Total/NA	Water	PrecSep_0	
500-204320-6	MW-04	Total/NA	Water	PrecSep_0	
500-204320-7	MW-05	Total/NA	Water	PrecSep_0	
MB 160-525045/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525045/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-204320-4 DU	Duplicate	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-204320-2

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

**Lab Sample ID: MB 160-525036/25-A**  
**Matrix: Water**  
**Analysis Batch: 528519**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 525036**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1414	U	0.224	0.224	1.00	0.384	pCi/L	09/01/21 09:36	09/23/21 08:23	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.4		40 - 110			09/01/21 09:36	09/23/21 08:23	1		

**Lab Sample ID: LCS 160-525036/1-A**  
**Matrix: Water**  
**Analysis Batch: 528517**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 525036**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.52		1.35	1.00	0.351	pCi/L	93	75 - 125
Carrier	LCS LCS		Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	74.9		40 - 110						

**Lab Sample ID: 500-204320-4 DU**  
**Matrix: Water**  
**Analysis Batch: 528517**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 525036**

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.323	U	0.08322	U	0.197	1.00	0.353	pCi/L	0.56	1
Carrier	DU DU		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	89.0		40 - 110							

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

**Lab Sample ID: MB 160-525045/25-A**  
**Matrix: Water**  
**Analysis Batch: 528478**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 525045**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2682	U	0.277	0.278	1.00	0.451	pCi/L	09/01/21 11:11	09/22/21 13:55	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	84.4		40 - 110			09/01/21 11:11	09/22/21 13:55	1		
Y Carrier	87.1		40 - 110			09/01/21 11:11	09/22/21 13:55	1		

# QC Sample Results

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

Job ID: 500-204320-2

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

**Lab Sample ID: LCS 160-525045/1-A**  
**Matrix: Water**  
**Analysis Batch: 528310**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 525045**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.31	8.923		1.14	1.00	0.551	pCi/L	96	75 - 125	
<b>LCS LCS</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	74.9		40 - 110							
Y Carrier	81.1		40 - 110							

**Lab Sample ID: 500-204320-4 DU**  
**Matrix: Water**  
**Analysis Batch: 528310**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 525045**

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.0578	U	0.2963	U	0.267	1.00	0.425	pCi/L	0.43	1
<b>DU DU</b>										
<b>Carrier</b>	<b>%Yield</b>	<b>Qualifier</b>	<b>Limits</b>							
Ba Carrier	89.0		40 - 110							
Y Carrier	81.9		40 - 110							

TestAmerica Chicago

2417 Bond Street

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

Chain of Custody Record



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program:  DW  NPDES  RCRA  Other

500-204320 COC

<b>Client Contact</b> KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton FAB CCR Site Powerton Station - Pekin IL P O # 4501908159		<b>Project Manager: Rich Gnat</b> Tel/Fax: (262) 781-0475		<b>Site Contact: Mitchel Dolan</b>		<b>Lab Contact: Diana Mockler</b>		<b>COC No</b> _____ of _____ COCs	
<b>Analysis Turnaround Time</b> <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<b>Filtered Sample (Y/N)</b>		<b>Perform MS / MSD (Y/N)</b>		<b>903.0 904.0 Radium 226/228 + Combine</b>		<b>6020A, 7470A 14 Metals &amp; Mercury</b>	
		<b>6010C - Lithium</b>		<b>4500_F_C - Fluoride</b>		<b>SM4500_CLE - Chloride</b>		<b>SM4500_SO4_E - Sulfate</b>	
		<b>2540C - TDS</b>							
<b>Sampler:</b> Walk-in Client Lab Sampling		<b>Job / SDG No</b> 500 204320							

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0 904.0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CLE - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
1 MW-10	8/24	16:10	G	W	7	N	N	X	X	X	X	X	X	X	
2 MW-01	8/24	15:07				N	N								
3 MW-02		13:32													
4 DUP															
5 MW-03		11:47													
6 MW-04		10:33													
7 MW-05		9:22													

**Preservation Used:** 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**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 & Comments. Lab Project #50011612.**  
CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium

Custody Seals Intact  Yes  No

Custody Seal No 1679170, 1679171, 1679168, 1679172, 1679173

Cooler Temp (°C) Obs'd 49, 108, 5.9

Relinquished by ~~Mitchel Dolan~~ Michael Bess

Company KPRG

Date/Time 8/24/18

Received by FedEx

Company

Date/Time

Received in Laboratory by *Stephanie Hernandez*

Company EIA-GHI

Date/Time 8/25/21 1510

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

ORIGIN ID:PIAA (262) 622-1143  
MIKE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106  
WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 24AUG21  
ACTWGT: 52.80 LB  
6994780/96FE2202  
13x13 IN

Part #: 13209348  
DYNAMIC 04/22

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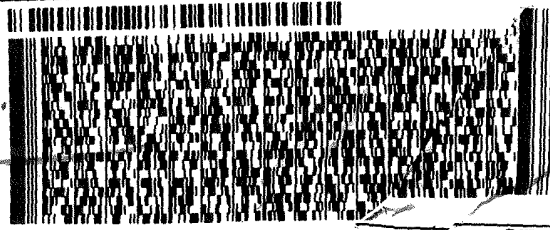
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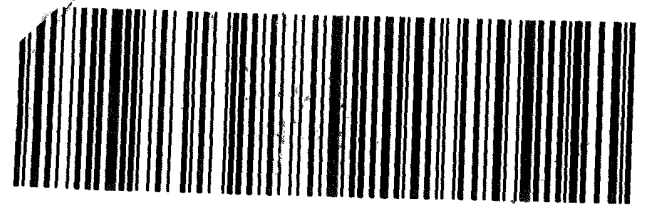
UNIVERSITY PARK IL 60484

(708) 684-5211 REF:  
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ORIGIN ID:PIAA (262) 622-1143  
M'KE RESS  
KPRG AND ASSOCIATES  
414 PLAZA DR STE 106

WESTMONT, IL 60559  
UNITED STATES US

SHIP DATE: 24AUG21  
ACTWGT: 52.80 LB  
CAD: 6994780/SSFE  
DIMS: 24x13x13 IN

BILL THIRD PARTY

**EUROFINS TEST AMERICA**  
**EUROFINS TEST AMERICA**  
**2417 BOND ST**

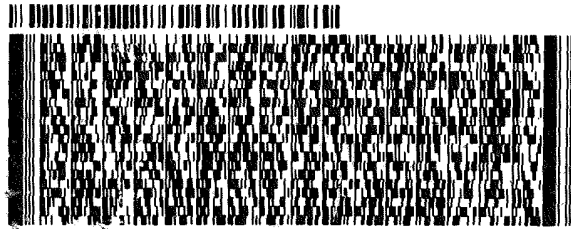
**UNIVERSITY PARK IL 60484**

(700) 684-6211

REF:

INU:

DEPT



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MONT, IL 60559  
UNITED STATES US

SHIP DATE: 24AUG21  
ACTWGT: 52.80 LB  
CAD: 6994780/SSFE2202  
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Part # 156291439EPRNDVUS-EXP C1/22

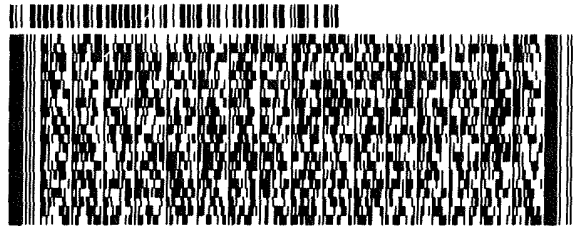
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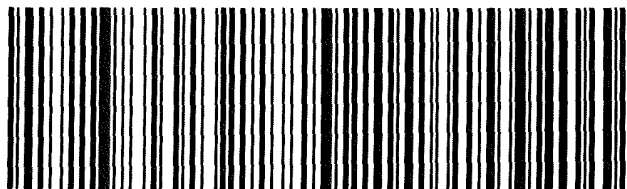
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# Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-151935.1					
Client Contact:		E-Mail: Diana.Mockler@Eurofins.com		State of Origin: Illinois		Page: Page 1 of 1					
Shipping/Receiving:		Accreditations Required (See note): NELAP - Illinois		Job #:		500-204320-2					
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045		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 FAB CCR		Project #: 50011612		Due Date Requested: 9/26/2021		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)					
Site: MWG - Powerton		SSOW#:		TAT Requested (days):		Analysis Requested:					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, W=water, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PreSep_21 Standard Target List	90.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
MW-10 (500-204320-1)	8/24/21	16:20 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-01 (500-204320-2)	8/24/21	15:07 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-02 (500-204320-3)	8/24/21	13:32 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
Duplicate (500-204320-4)	8/24/21	Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-03 (500-204320-5)	8/24/21	11:47 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-04 (500-204320-6)	8/24/21	10:33 Central	Water	Water	X	X	X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-05 (500-204320-7)	8/24/21	09:22 Central	Water	Water	X	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 TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

**Possible Hazard Identification**  
Unconfirmed

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

Empty Kit Relinquished by: Date: Time: Method of Shipment:  Return To Client  Disposal By Lab  Archive For Months

Relinquished by: *Stephanie Hernandez* Date/Time: 8/24/21 16:30 Company: EPA-GHI  
Received by: *Michael Keminaga* Date/Time: AUG 26 2021 10:15 Company: EPA SIA  
Received by: Date/Time: Company:

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





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204320-2

**Login Number: 204320**

**List Source: Eurofins TestAmerica, 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	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	4.9,10.8,5.9
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: 500-204320-2

**Login Number: 204320**

**List Number: 2**

**Creator: Korrinhizer, Micha L**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 08/27/21 08:54 PM**

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



# Lab Chronicle

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

Job ID: 500-204320-2

## Client Sample ID: MW-10

Date Collected: 08/24/21 16:20

Date Received: 08/25/21 15:10

## Lab Sample ID: 500-204320-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:13	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:47	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

## Client Sample ID: MW-01

Date Collected: 08/24/21 15:07

Date Received: 08/25/21 15:10

## Lab Sample ID: 500-204320-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:13	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

## Client Sample ID: MW-02

Date Collected: 08/24/21 13:32

Date Received: 08/25/21 15:10

## Lab Sample ID: 500-204320-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:14	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

## Client Sample ID: Duplicate

Date Collected: 08/24/21 00:00

Date Received: 08/25/21 15:10

## Lab Sample ID: 500-204320-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:14	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

# Lab Chronicle

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

Job ID: 500-204320-2

**Client Sample ID: MW-03**  
**Date Collected: 08/24/21 11:47**  
**Date Received: 08/25/21 15:10**

**Lab Sample ID: 500-204320-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:14	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

**Client Sample ID: MW-04**  
**Date Collected: 08/24/21 10:33**  
**Date Received: 08/25/21 15:10**

**Lab Sample ID: 500-204320-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:15	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

**Client Sample ID: MW-05**  
**Date Collected: 08/24/21 09:22**  
**Date Received: 08/25/21 15:10**

**Lab Sample ID: 500-204320-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:15	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

**Laboratory References:**

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

# Accreditation/Certification Summary

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

Job ID: 500-204320-2

## Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

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# Tracer/Carrier Summary

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

Job ID: 500-204320-2

## 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)	
500-204320-1	MW-10	86.7	
500-204320-2	MW-01	92.1	
500-204320-3	MW-02	92.3	
500-204320-4	Duplicate	91.6	
500-204320-4 DU	Duplicate	89.0	
500-204320-5	MW-03	92.6	
500-204320-6	MW-04	91.8	
500-204320-7	MW-05	84.7	
LCS 160-525036/1-A	Lab Control Sample	74.9	
MB 160-525036/25-A	Method Blank	84.4	
<b>Tracer/Carrier Legend</b>			
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)
500-204320-1	MW-10	86.7	79.6
500-204320-2	MW-01	92.1	81.9
500-204320-3	MW-02	92.3	86.0
500-204320-4	Duplicate	91.6	76.3
500-204320-4 DU	Duplicate	89.0	81.9
500-204320-5	MW-03	92.6	80.7
500-204320-6	MW-04	91.8	83.0
500-204320-7	MW-05	84.7	86.7
LCS 160-525045/1-A	Lab Control Sample	74.9	81.1
MB 160-525045/25-A	Method Blank	84.4	87.1
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			