

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

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

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

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

Well	Date	Turbidity (NTU)
MW-13	2/24/2021	8.90
	4/8/2021	6.50
	5/13/2021	2.17
	6/3/2021	2.81
	6/29/2021	4.00
	8/23/2021	3.99
	10/1/2021	4.82
	11/30/2021	5.51
	1/6/2022	16.87
	2/9/2022	1.99
6/8/2022	30.66	
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/7/2022	9.38
6/8/2022	10.32	
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/30/2021	8.86
	2/9/2022	11.19
6/8/2022	41.49	
MW-14	2/24/2021	13.90
	4/8/2021	5.39
	5/12/2021	1.22
	6/3/2021	2.63
	6/28/2021	3.74
	7/20/2021	4.34
	8/23/2021	4.26
	10/1/2021	10.27
	11/29/2021	12.29
	2/9/2022	8.66
6/8/2022	19.54	
MW-20	3/12/2021	343.30
	4/8/2021	14.45
	5/12/2021	3.89
	6/3/2021	6.01
	6/28/2021	8.28
	7/20/2021	9.16
	8/23/2021	27.31
	10/1/2021	8.27
	11/29/2021	8.35
	2/8/2022	76.4
6/9/2022	19.31	
MW-21	3/12/2021	49.20
	4/8/2021	5.88
	5/12/2021	26.09
	6/3/2021	17.61
	6/28/2021	6.33
	7/20/2021	44.93
	8/23/2021	19.43
	10/8/2021	94.82
	11/29/2021	20.2
	3/1/2022	7.64
6/9/2022	7.56	

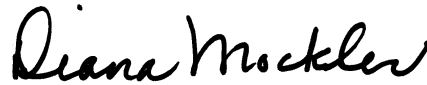
ANALYTICAL REPORT

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

Laboratory Job ID: 500-217851-1
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:
6/23/2022 12:10:29 PM

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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 CCR MCB

Job ID: 500-217851-1

Job ID: 500-217851-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-217851-1

Comments

No additional comments.

Receipt

The samples were received on 6/9/2022 4:20 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 0.0° C, 0.8° C and 2.3° C.

Metals

Method 6020A: The continuing calibration verification (CCV) at line 32 in AD batch 662557 was outside the control limits for Boron. This CCV bracketed the method blank (MB) and laboratory control sample (LCS) only. The MB and LCS were within the method control limits. The associated samples were bracketed by CCV that were within control limits. Therefore, the data have been reported.

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

General Chemistry

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



Method Summary

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

Job ID: 500-217851-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-217851-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217851-1	MW-15	Water	06/08/22 14:50	06/09/22 16:20
500-217851-2	MW-14	Water	06/08/22 16:02	06/09/22 16:20
500-217851-3	MW-17	Water	06/08/22 13:45	06/09/22 16:20
500-217851-4	MW-13	Water	06/08/22 12:50	06/09/22 16:20
500-217851-5	Duplicate	Water	06/08/22 00:00	06/09/22 16:20
500-217851-6	MW-20	Water	06/09/22 08:14	06/11/22 10:50
500-217851-7	MW-21	Water	06/09/22 09:16	06/11/22 10:50

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

Client Sample Results

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

Job ID: 500-217851-1

Client Sample ID: MW-15

Lab Sample ID: 500-217851-1

Date Collected: 06/08/22 14:50

Matrix: Water

Date Received: 06/09/22 16:20

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		06/15/22 08:37	06/16/22 17:09	1
Arsenic	0.0040		0.0010		mg/L		06/15/22 08:37	06/16/22 17:09	1
Barium	0.090		0.0025		mg/L		06/15/22 08:37	06/16/22 17:09	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 17:09	1
Boron	2.0		0.25		mg/L		06/20/22 08:13	06/22/22 14:24	5
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:09	1
Calcium	310		1.0		mg/L		06/20/22 08:13	06/22/22 14:24	5
Chromium	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 17:43	1
Cobalt	<0.0010		0.0010		mg/L		06/20/22 08:13	06/20/22 17:43	1
Lead	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:09	1
Lithium	0.027		0.010		mg/L		06/15/22 08:37	06/16/22 17:09	1
Molybdenum	0.019		0.0050		mg/L		06/20/22 08:13	06/20/22 17:43	1
Selenium	0.12		0.0025		mg/L		06/15/22 08:37	06/16/22 17:09	1
Thallium	<0.0020		0.0020		mg/L		06/15/22 08:37	06/16/22 17:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/17/22 10:15	06/20/22 11:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2600		10		mg/L			06/13/22 01:27	1
Chloride	230		10		mg/L			06/10/22 10:57	5
Fluoride	0.43		0.10		mg/L			06/20/22 13:41	1
Sulfate	970		100		mg/L			06/13/22 10:52	20

Client Sample ID: MW-14

Lab Sample ID: 500-217851-2

Date Collected: 06/08/22 16:02

Matrix: Water

Date Received: 06/09/22 16:20

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		06/15/22 08:37	06/16/22 17:12	1
Arsenic	0.0041		0.0010		mg/L		06/15/22 08:37	06/16/22 17:12	1
Barium	0.057		0.0025		mg/L		06/15/22 08:37	06/16/22 17:12	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 17:12	1
Boron	2.2		0.25		mg/L		06/20/22 08:13	06/22/22 14:27	5
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:12	1
Calcium	220		0.20		mg/L		06/20/22 08:13	06/20/22 17:53	1
Chromium	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 17:53	1
Cobalt	<0.0010		0.0010		mg/L		06/20/22 08:13	06/20/22 17:53	1
Lead	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:12	1
Lithium	0.022		0.010		mg/L		06/15/22 08:37	06/16/22 17:12	1
Molybdenum	0.038		0.0050		mg/L		06/20/22 08:13	06/20/22 17:53	1
Selenium	0.013		0.0025		mg/L		06/15/22 08:37	06/16/22 17:12	1
Thallium	0.0033		0.0020		mg/L		06/15/22 08:37	06/16/22 17:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/17/22 10:15	06/20/22 12:00	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-217851-1

Client Sample ID: MW-14
Date Collected: 06/08/22 16:02
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2100		10		mg/L			06/13/22 01:30	1
Chloride	87		10		mg/L			06/10/22 10:57	5
Fluoride	0.96		0.10		mg/L			06/20/22 13:49	1
Sulfate	810		100		mg/L			06/13/22 10:37	20

Client Sample ID: MW-17
Date Collected: 06/08/22 13:45
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/15/22 08:37	06/16/22 17:16	1
Arsenic	0.0071		0.0010		mg/L		06/15/22 08:37	06/16/22 17:16	1
Barium	0.038		0.0025		mg/L		06/15/22 08:37	06/16/22 17:16	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 17:16	1
Boron	1.3		0.25		mg/L		06/20/22 08:13	06/22/22 14:31	5
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:16	1
Calcium	190		0.20		mg/L		06/15/22 08:37	06/16/22 17:16	1
Chromium	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 17:56	1
Cobalt	<0.0010		0.0010		mg/L		06/20/22 08:13	06/20/22 17:56	1
Lead	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:16	1
Lithium	0.017		0.010		mg/L		06/15/22 08:37	06/16/22 17:16	1
Molybdenum	0.053		0.0050		mg/L		06/20/22 08:13	06/20/22 17:56	1
Selenium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 17:16	1
Thallium	<0.0020		0.0020		mg/L		06/15/22 08:37	06/16/22 17:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/17/22 10:15	06/20/22 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1900		10		mg/L			06/13/22 01:32	1
Chloride	190		10		mg/L			06/10/22 10:58	5
Fluoride	0.69		0.10		mg/L			06/20/22 14:02	1
Sulfate	820		100		mg/L			06/13/22 10:37	20

Client Sample ID: MW-13
Date Collected: 06/08/22 12:50
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		06/15/22 08:37	06/16/22 17:26	1
Arsenic	0.021		0.0010		mg/L		06/15/22 08:37	06/16/22 17:26	1
Barium	0.17		0.0025		mg/L		06/15/22 08:37	06/16/22 17:26	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 17:26	1
Boron	3.2		0.50		mg/L		06/20/22 08:13	06/22/22 14:34	10
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:26	1
Calcium	240		0.20		mg/L		06/15/22 08:37	06/16/22 17:26	1
Chromium	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 18:00	1

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Client Sample Results

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

Job ID: 500-217851-1

Client Sample ID: MW-13

Lab Sample ID: 500-217851-4

Date Collected: 06/08/22 12:50

Matrix: Water

Date Received: 06/09/22 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		06/20/22 08:13	06/20/22 18:00	1
Lead	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:26	1
Lithium	<0.010		0.010		mg/L		06/15/22 08:37	06/16/22 17:26	1
Molybdenum	0.021		0.0050		mg/L		06/20/22 08:13	06/20/22 18:00	1
Selenium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 17:26	1
Thallium	<0.0020		0.0020		mg/L		06/15/22 08:37	06/16/22 17:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/17/22 10:15	06/20/22 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1800		10		mg/L			06/13/22 01:35	1
Chloride	100		10		mg/L			06/10/22 10:58	5
Fluoride	0.37		0.10		mg/L			06/20/22 14:05	1
Sulfate	860		250		mg/L			06/13/22 10:52	50

Client Sample ID: Duplicate

Lab Sample ID: 500-217851-5

Date Collected: 06/08/22 00:00

Matrix: Water

Date Received: 06/09/22 16:20

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		06/15/22 08:37	06/16/22 17:30	1
Arsenic	0.0042		0.0010		mg/L		06/15/22 08:37	06/16/22 17:30	1
Barium	0.037		0.0025		mg/L		06/15/22 08:37	06/16/22 17:30	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 17:30	1
Boron	1.4		0.25		mg/L		06/20/22 08:13	06/22/22 14:38	5
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:30	1
Calcium	200		0.20		mg/L		06/15/22 08:37	06/16/22 17:30	1
Chromium	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 18:03	1
Cobalt	<0.0010		0.0010		mg/L		06/20/22 08:13	06/20/22 18:03	1
Lead	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 17:30	1
Lithium	0.016		0.010		mg/L		06/15/22 08:37	06/16/22 17:30	1
Molybdenum	0.052		0.0050		mg/L		06/20/22 08:13	06/20/22 18:03	1
Selenium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 17:30	1
Thallium	<0.0020		0.0020		mg/L		06/15/22 08:37	06/16/22 17:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/17/22 10:15	06/20/22 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1800		10		mg/L			06/13/22 01:37	1
Chloride	190		10		mg/L			06/10/22 11:41	5
Fluoride	0.69		0.10		mg/L			06/20/22 14:08	1
Sulfate	810		100		mg/L			06/13/22 10:52	20

Eurofins Chicago

Client Sample Results

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

Job ID: 500-217851-1

Client Sample ID: MW-20

Lab Sample ID: 500-217851-6

Date Collected: 06/09/22 08:14

Matrix: Water

Date Received: 06/11/22 10:50

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		06/16/22 07:56	06/17/22 16:12	1
Arsenic	0.0024		0.0010		mg/L		06/16/22 07:56	06/17/22 16:12	1
Barium	0.10		0.0025		mg/L		06/16/22 07:56	06/17/22 16:12	1
Beryllium	<0.0010		0.0010		mg/L		06/16/22 07:56	06/17/22 16:12	1
Boron	1.5		0.50		mg/L		06/16/22 07:56	06/20/22 12:08	10
Cadmium	<0.00050		0.00050		mg/L		06/16/22 07:56	06/17/22 16:12	1
Calcium	230		0.20		mg/L		06/16/22 07:56	06/17/22 16:12	1
Chromium	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 16:12	1
Cobalt	0.0018		0.0010		mg/L		06/16/22 07:56	06/17/22 16:12	1
Lead	<0.00050		0.00050		mg/L		06/16/22 07:56	06/17/22 16:12	1
Lithium	<0.010		0.010		mg/L		06/16/22 07:56	06/17/22 16:12	1
Molybdenum	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 16:12	1
Selenium	<0.0025		0.0025		mg/L		06/16/22 07:56	06/17/22 16:12	1
Thallium	<0.0020		0.0020		mg/L		06/16/22 07:56	06/17/22 16:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/17/22 10:15	06/20/22 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			06/13/22 01:40	1
Chloride	65		10		mg/L			06/13/22 12:11	5
Fluoride	0.13		0.10		mg/L			06/20/22 14:11	1
Sulfate	400		100		mg/L			06/13/22 10:53	20

Client Sample ID: MW-21

Lab Sample ID: 500-217851-7

Date Collected: 06/09/22 09:16

Matrix: Water

Date Received: 06/11/22 10:50

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		06/16/22 07:56	06/17/22 16:15	1
Arsenic	0.028		0.0010		mg/L		06/16/22 07:56	06/17/22 16:15	1
Barium	0.40		0.0025		mg/L		06/16/22 07:56	06/17/22 16:15	1
Beryllium	<0.0010		0.0010		mg/L		06/16/22 07:56	06/17/22 16:15	1
Boron	0.45		0.050		mg/L		06/16/22 07:56	06/20/22 12:11	1
Cadmium	<0.00050		0.00050		mg/L		06/16/22 07:56	06/17/22 16:15	1
Calcium	130		0.20		mg/L		06/16/22 07:56	06/17/22 16:15	1
Chromium	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 16:15	1
Cobalt	0.0028		0.0010		mg/L		06/16/22 07:56	06/17/22 16:15	1
Lead	<0.00050		0.00050		mg/L		06/16/22 07:56	06/17/22 16:15	1
Lithium	<0.010		0.010		mg/L		06/16/22 07:56	06/17/22 16:15	1
Molybdenum	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 16:15	1
Selenium	<0.0025		0.0025		mg/L		06/16/22 07:56	06/17/22 16:15	1
Thallium	<0.0020		0.0020		mg/L		06/16/22 07:56	06/17/22 16:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/17/22 10:15	06/20/22 12:11	1

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Client Sample Results

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

Job ID: 500-217851-1

Client Sample ID: MW-21
Date Collected: 06/09/22 09:16
Date Received: 06/11/22 10:50

Lab Sample ID: 500-217851-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	660		10		mg/L			06/13/22 08:29	1
Chloride	24		4.0		mg/L			06/13/22 12:11	2
Fluoride	0.16		0.10		mg/L			06/20/22 14:15	1
Sulfate	12		5.0		mg/L			06/13/22 10:53	1

Definitions/Glossary

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

Job ID: 500-217851-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.

General Chemistry

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

Glossary

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

QC Association Summary

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

Job ID: 500-217851-1

Metals

Prep Batch: 661262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total Recoverable	Water	3005A	
500-217851-2	MW-14	Total Recoverable	Water	3005A	
500-217851-3	MW-17	Total Recoverable	Water	3005A	
500-217851-4	MW-13	Total Recoverable	Water	3005A	
500-217851-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-661262/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-661262/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 661434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-6	MW-20	Total Recoverable	Water	3005A	
500-217851-7	MW-21	Total Recoverable	Water	3005A	
MB 500-661434/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-661434/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 661706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total/NA	Water	7470A	
500-217851-2	MW-14	Total/NA	Water	7470A	
500-217851-3	MW-17	Total/NA	Water	7470A	
500-217851-4	MW-13	Total/NA	Water	7470A	
500-217851-5	Duplicate	Total/NA	Water	7470A	
500-217851-6	MW-20	Total/NA	Water	7470A	
500-217851-7	MW-21	Total/NA	Water	7470A	
MB 500-661706/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-661706/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-217851-7 MS	MW-21	Total/NA	Water	7470A	
500-217851-7 MSD	MW-21	Total/NA	Water	7470A	
500-217851-7 DU	MW-21	Total/NA	Water	7470A	

Analysis Batch: 661710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total Recoverable	Water	6020A	661262
500-217851-2	MW-14	Total Recoverable	Water	6020A	661262
500-217851-3	MW-17	Total Recoverable	Water	6020A	661262
500-217851-4	MW-13	Total Recoverable	Water	6020A	661262
500-217851-5	Duplicate	Total Recoverable	Water	6020A	661262
MB 500-661262/1-A	Method Blank	Total Recoverable	Water	6020A	661262
LCS 500-661262/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661262

Prep Batch: 661901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total Recoverable	Water	3005A	
500-217851-2	MW-14	Total Recoverable	Water	3005A	
500-217851-3	MW-17	Total Recoverable	Water	3005A	
500-217851-4	MW-13	Total Recoverable	Water	3005A	
500-217851-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-661901/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-661901/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

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

Job ID: 500-217851-1

Metals

Analysis Batch: 661953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-6	MW-20	Total Recoverable	Water	6020A	661434
500-217851-7	MW-21	Total Recoverable	Water	6020A	661434
MB 500-661434/1-A	Method Blank	Total Recoverable	Water	6020A	661434
LCS 500-661434/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661434

Analysis Batch: 662002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total/NA	Water	7470A	661706
500-217851-2	MW-14	Total/NA	Water	7470A	661706
500-217851-3	MW-17	Total/NA	Water	7470A	661706
500-217851-4	MW-13	Total/NA	Water	7470A	661706
500-217851-5	Duplicate	Total/NA	Water	7470A	661706
500-217851-6	MW-20	Total/NA	Water	7470A	661706
500-217851-7	MW-21	Total/NA	Water	7470A	661706
MB 500-661706/12-A	Method Blank	Total/NA	Water	7470A	661706
LCS 500-661706/13-A	Lab Control Sample	Total/NA	Water	7470A	661706
500-217851-7 MS	MW-21	Total/NA	Water	7470A	661706
500-217851-7 MSD	MW-21	Total/NA	Water	7470A	661706
500-217851-7 DU	MW-21	Total/NA	Water	7470A	661706

Analysis Batch: 662010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-6	MW-20	Total Recoverable	Water	6020A	661434
500-217851-7	MW-21	Total Recoverable	Water	6020A	661434

Analysis Batch: 662363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total Recoverable	Water	6020A	661901
500-217851-2	MW-14	Total Recoverable	Water	6020A	661901
500-217851-3	MW-17	Total Recoverable	Water	6020A	661901
500-217851-4	MW-13	Total Recoverable	Water	6020A	661901
500-217851-5	Duplicate	Total Recoverable	Water	6020A	661901
MB 500-661901/1-A	Method Blank	Total Recoverable	Water	6020A	661901
LCS 500-661901/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661901

Analysis Batch: 662557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total Recoverable	Water	6020A	661901
500-217851-2	MW-14	Total Recoverable	Water	6020A	661901
500-217851-3	MW-17	Total Recoverable	Water	6020A	661901
500-217851-4	MW-13	Total Recoverable	Water	6020A	661901
500-217851-5	Duplicate	Total Recoverable	Water	6020A	661901
MB 500-661901/1-A	Method Blank	Total Recoverable	Water	6020A	661901
LCS 500-661901/2-A	Lab Control Sample	Total Recoverable	Water	6020A	661901

General Chemistry

Analysis Batch: 660740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total/NA	Water	SM 4500 CI- E	
500-217851-2	MW-14	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

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

Job ID: 500-217851-1

General Chemistry (Continued)

Analysis Batch: 660740 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-3	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-217851-4	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-217851-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-660740/153	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-660740/154	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-217851-5 MS	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-217851-5 MSD	Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 660850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total/NA	Water	SM 2540C	
500-217851-2	MW-14	Total/NA	Water	SM 2540C	
500-217851-3	MW-17	Total/NA	Water	SM 2540C	
500-217851-4	MW-13	Total/NA	Water	SM 2540C	
500-217851-5	Duplicate	Total/NA	Water	SM 2540C	
500-217851-6	MW-20	Total/NA	Water	SM 2540C	
MB 500-660850/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-660850/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 660851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-7	MW-21	Total/NA	Water	SM 2540C	
MB 500-660851/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-660851/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-217851-7 MS	MW-21	Total/NA	Water	SM 2540C	
500-217851-7 DU	MW-21	Total/NA	Water	SM 2540C	

Analysis Batch: 660955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-217851-2	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-217851-3	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-217851-4	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-217851-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-217851-6	MW-20	Total/NA	Water	SM 4500 SO4 E	
500-217851-7	MW-21	Total/NA	Water	SM 4500 SO4 E	
MB 500-660955/94	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-660955/95	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 660998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-6	MW-20	Total/NA	Water	SM 4500 Cl- E	
500-217851-7	MW-21	Total/NA	Water	SM 4500 Cl- E	
MB 500-660998/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-660998/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 662032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total/NA	Water	SM 4500 F C	
500-217851-2	MW-14	Total/NA	Water	SM 4500 F C	
500-217851-3	MW-17	Total/NA	Water	SM 4500 F C	

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QC Association Summary

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

Job ID: 500-217851-1

General Chemistry (Continued)

Analysis Batch: 662032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-4	MW-13	Total/NA	Water	SM 4500 F C	
500-217851-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-217851-6	MW-20	Total/NA	Water	SM 4500 F C	
500-217851-7	MW-21	Total/NA	Water	SM 4500 F C	
MB 500-662032/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-662032/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-217851-1 MS	MW-15	Total/NA	Water	SM 4500 F C	
500-217851-1 MSD	MW-15	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

Job ID: 500-217851-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-661262/1-A
Matrix: Water
Analysis Batch: 661710

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661262

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/15/22 08:37	06/16/22 16:45	1
Arsenic	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 16:45	1
Barium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 16:45	1
Beryllium	<0.0010		0.0010		mg/L		06/15/22 08:37	06/16/22 16:45	1
Cadmium	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 16:45	1
Calcium	<0.20		0.20		mg/L		06/15/22 08:37	06/16/22 16:45	1
Lead	<0.00050		0.00050		mg/L		06/15/22 08:37	06/16/22 16:45	1
Lithium	<0.010		0.010		mg/L		06/15/22 08:37	06/16/22 16:45	1
Selenium	<0.0025		0.0025		mg/L		06/15/22 08:37	06/16/22 16:45	1
Thallium	<0.0020		0.0020		mg/L		06/15/22 08:37	06/16/22 16:45	1

Lab Sample ID: LCS 500-661262/2-A
Matrix: Water
Analysis Batch: 661710

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661262

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Antimony	0.500	0.496		mg/L		99	80 - 120
Arsenic	0.100	0.0979		mg/L		98	80 - 120
Barium	0.500	0.495		mg/L		99	80 - 120
Beryllium	0.0500	0.0498		mg/L		100	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	10.0	9.93		mg/L		99	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.100	0.104		mg/L		104	80 - 120
Selenium	0.100	0.0988		mg/L		99	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: MB 500-661434/1-A
Matrix: Water
Analysis Batch: 661953

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661434

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/16/22 07:56	06/17/22 14:26	1
Arsenic	<0.0010		0.0010		mg/L		06/16/22 07:56	06/17/22 14:26	1
Barium	<0.0025		0.0025		mg/L		06/16/22 07:56	06/17/22 14:26	1
Beryllium	<0.0010		0.0010		mg/L		06/16/22 07:56	06/17/22 14:26	1
Boron	<0.050		0.050		mg/L		06/16/22 07:56	06/17/22 14:26	1
Cadmium	<0.00050		0.00050		mg/L		06/16/22 07:56	06/17/22 14:26	1
Calcium	<0.20		0.20		mg/L		06/16/22 07:56	06/17/22 14:26	1
Chromium	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 14:26	1
Cobalt	<0.0010		0.0010		mg/L		06/16/22 07:56	06/17/22 14:26	1
Lead	<0.00050		0.00050		mg/L		06/16/22 07:56	06/17/22 14:26	1
Lithium	<0.010		0.010		mg/L		06/16/22 07:56	06/17/22 14:26	1
Molybdenum	<0.0050		0.0050		mg/L		06/16/22 07:56	06/17/22 14:26	1
Selenium	<0.0025		0.0025		mg/L		06/16/22 07:56	06/17/22 14:26	1
Thallium	<0.0020		0.0020		mg/L		06/16/22 07:56	06/17/22 14:26	1

QC Sample Results

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

Job ID: 500-217851-1

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

Lab Sample ID: LCS 500-661434/2-A
Matrix: Water
Analysis Batch: 661953

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Antimony	0.500	0.495		mg/L		99	80 - 120	
Arsenic	0.100	0.0973		mg/L		97	80 - 120	
Barium	0.500	0.497		mg/L		99	80 - 120	
Beryllium	0.0500	0.0504		mg/L		101	80 - 120	
Boron	1.00	1.00		mg/L		100	80 - 120	
Cadmium	0.0500	0.0486		mg/L		97	80 - 120	
Calcium	10.0	9.63		mg/L		96	80 - 120	
Chromium	0.200	0.202		mg/L		101	80 - 120	
Cobalt	0.500	0.507		mg/L		101	80 - 120	
Lead	0.100	0.103		mg/L		103	80 - 120	
Lithium	0.100	0.101		mg/L		101	80 - 120	
Molybdenum	1.00	0.938		mg/L		94	80 - 120	
Selenium	0.100	0.0990		mg/L		99	80 - 120	
Thallium	0.100	0.103		mg/L		103	80 - 120	

Lab Sample ID: MB 500-661901/1-A
Matrix: Water
Analysis Batch: 662363

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661901

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 17:11	1
Cobalt	<0.0010		0.0010		mg/L		06/20/22 08:13	06/20/22 17:11	1
Molybdenum	<0.0050		0.0050		mg/L		06/20/22 08:13	06/20/22 17:11	1

Lab Sample ID: MB 500-661901/1-A
Matrix: Water
Analysis Batch: 662557

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 661901

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050	^+	0.050		mg/L		06/20/22 08:13	06/22/22 13:46	1

Lab Sample ID: LCS 500-661901/2-A
Matrix: Water
Analysis Batch: 662363

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Chromium	0.200	0.205		mg/L		103	80 - 120	
Cobalt	0.500	0.509		mg/L		102	80 - 120	
Molybdenum	1.00	0.932		mg/L		93	80 - 120	

Lab Sample ID: LCS 500-661901/2-A
Matrix: Water
Analysis Batch: 662557

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 661901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Boron	1.00	1.07	^+	mg/L		107	80 - 120	

QC Sample Results

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

Job ID: 500-217851-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-661706/12-A
Matrix: Water
Analysis Batch: 662002

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 661706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/17/22 10:15	06/20/22 11:54	1

Lab Sample ID: LCS 500-661706/13-A
Matrix: Water
Analysis Batch: 662002

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 661706

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: 500-217851-7 MS
Matrix: Water
Analysis Batch: 662002

Client Sample ID: MW-21
Prep Type: Total/NA
Prep Batch: 661706

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000951		mg/L		95	75 - 125

Lab Sample ID: 500-217851-7 MSD
Matrix: Water
Analysis Batch: 662002

Client Sample ID: MW-21
Prep Type: Total/NA
Prep Batch: 661706

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125	5	20

Lab Sample ID: 500-217851-7 DU
Matrix: Water
Analysis Batch: 662002

Client Sample ID: MW-21
Prep Type: Total/NA
Prep Batch: 661706

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020			<0.00020		mg/L				NC	20

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

Lab Sample ID: MB 500-660850/1
Matrix: Water
Analysis Batch: 660850

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			06/13/22 00:41	1

Lab Sample ID: LCS 500-660850/2
Matrix: Water
Analysis Batch: 660850

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	246		mg/L		98	80 - 120

QC Sample Results

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

Job ID: 500-217851-1

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

Lab Sample ID: MB 500-660851/1
Matrix: Water
Analysis Batch: 660851

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			06/13/22 08:24	1

Lab Sample ID: LCS 500-660851/2
Matrix: Water
Analysis Batch: 660851

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	262		mg/L		105	80 - 120

Lab Sample ID: 500-217851-7 MS
Matrix: Water
Analysis Batch: 660851

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	660		250	964		mg/L		122	75 - 125

Lab Sample ID: 500-217851-7 DU
Matrix: Water
Analysis Batch: 660851

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

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	660			684		mg/L		4	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-660740/153
Matrix: Water
Analysis Batch: 660740

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			06/10/22 11:40	1

Lab Sample ID: LCS 500-660740/154
Matrix: Water
Analysis Batch: 660740

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

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

Lab Sample ID: 500-217851-5 MS
Matrix: Water
Analysis Batch: 660740

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	190		20.0	210	4	mg/L		103	75 - 125

QC Sample Results

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

Job ID: 500-217851-1

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

Lab Sample ID: 500-217851-5 MSD
Matrix: Water
Analysis Batch: 660740

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	190		20.0	210	4	mg/L		103	75 - 125	0	20

Lab Sample ID: MB 500-660998/16
Matrix: Water
Analysis Batch: 660998

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			06/13/22 12:06	1

Lab Sample ID: LCS 500-660998/17
Matrix: Water
Analysis Batch: 660998

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		101	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-662032/31
Matrix: Water
Analysis Batch: 662032

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			06/20/22 13:35	1

Lab Sample ID: LCS 500-662032/32
Matrix: Water
Analysis Batch: 662032

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	10.9		mg/L		109	90 - 119

Lab Sample ID: 500-217851-1 MS
Matrix: Water
Analysis Batch: 662032

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.43		5.00	5.50		mg/L		101	75 - 125

Lab Sample ID: 500-217851-1 MSD
Matrix: Water
Analysis Batch: 662032

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.43		5.00	5.53		mg/L		102	75 - 125	1	20

QC Sample Results

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

Job ID: 500-217851-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-660955/94
Matrix: Water
Analysis Batch: 660955

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			06/13/22 10:34	1

Lab Sample ID: LCS 500-660955/95
Matrix: Water
Analysis Batch: 660955

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.9		mg/L		110	88 - 123



Eurofins Chicago

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

Chain of Custody Record

MKE 232



EN 18310
 An r t

Client Information				Sampler <i>Mitchel Dolan</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No 500-101318-44026 1												
Client Contact Mitchel Dolan				Phone <i>262-622-1143</i>	E-Mail Diana.Mockler@et.eurofinsus.com	State of Origin <i>IL</i>	Page Page 1 of 1												
Company KPRG and Associates Inc.				PWSID	Analysis Requested		Job # <i>500-217851</i>												
Address 414 Plaza Drive Suite 106				Due Date Requested	Field Filtered Sample (Yes or No) _____ Performed MSL/MSD (Yes or No) _____ 2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E _____ 9030 - Radium 226 _____ 9040 - Radium 228 _____ Ra226Ra228_GPPC Rad Combined _____ 6010C, 6020A 7470A _____		Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O As/NaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2S2O3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydride I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Tizma Z other (specify)												
City Westmont				TAT Requested (days)															
State Zip IL 60559				Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No															
Phone 262-781-0475(Tel)				PO # 4502081030															
Email mitchel@kprginc.com				WO #															
Project Name Powerton CCR MCB				Project # 50018578															
Site				SSOW#	Total Number of Containers: _____ Other: _____														
Sample Identification				Sample Date			Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A-Air)										
				Preservation Code															
				N			D	D	D										
1 MW 15	6/8/22	1450	G	Water			N	N	X	X	X	X							
2 MW 14	6/8/22	1602	G	Water			N	N	X	X	X	X							
3 MW 17	6/8/22	1345	G	Water	N	N	X	X	X	X									
4 MW MW-13	6/8/22	1250	G	Water	N	N	X	X	X	X									
5 MW Duplicate	6/8/22	-	G	Water	N	N	X	X	X	X									
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements															
Empty Kit Relinquished by		Date		Time		Method of Shipment:													
Relinquished by <i>MPO</i>		Date/Time <i>6/8/22 / 1700</i>		Company <i>KPRG</i>		Received by <i>FEDEX</i>													
Relinquished by		Date/Time		Company		Received by <i>Ann Scott</i>													
Relinquished by		Date/Time		Company		Date/Time <i>6/9/22 1620</i>													
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <i>05-200, 103-200</i>															

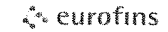
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Eurofins Chicago

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

Chain of Custody Record

MKE 232



Lab No. n e i n
A r e c

Client Information				Lab PM		Carrier Tracking No(s)		COC No			
Client Contact Mitchel Dolan				Mockler Diana J				500-101318-44026 1			
Company KPRG and Associates Inc				E-Mail Diana Mockler@eurofinsus.com		State of Origin IL		Page Page 1 of 1			
Address 414 Plaza Drive Suite 106				Due Date Requested		Analysis Requested		Job # 500-217851			
City Westmont				TAT Requested (days)		2540C 4500_F_C, SM4500_CL_E, SM4500_S04_E		Preservation Codes			
State Zip IL 60559				Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		903.0 Radium 226		A HCL M Hexane			
Phone 262 781-0475(Tel)				PO # 4502081030		904.0 Radium 228		S NaOH N None			
e-mail mitcheld@kprginc.com				W/O #		Ra228/Ra228 GFPC Rad Combined		O Nitric Acid C AsNaO2			
Project Name Powerton CCR MCB				Projec. # 50018578		6010C, 6020A 7470A		P Na2O4S			
Site				SSC/W#		Total Number of Containers		Q Na2S2O3			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	Special Instructions/Note				
6 MW-20	6/9/22	0814	G	Water	N	N					
7 MW-21	6/9/22	0916	G	Water	N	N					
1				Water							
2				Water							
3				Water							
4				Water							
5				Water							
6				Water							
7				Water							
8				Water							
9				Water							
10				Water							
11				Water							
12				Water							
13				Water							



500-217851 COC

- Preservation Codes
- | | |
|---------------|--------------------|
| A HCL | M Hexane |
| S NaOH | N None |
| Zn Acetate | O AsNaO2 |
| Nitric Acid | P Na2O4S |
| NaHSO4 | Q Na2S2O3 |
| MeOH | R Na2S2O3 |
| Amchlor | S H2SO4 |
| Ascorbic Acid | T *SP Doocahyu ate |
| Ice | U Acetone |
| DI Water | V MCAA |
| EDTA | W pH 4-5 |
| EDTA | Y Trizma |
| | Z other (specify |
- Other:

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

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

Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by MPO	Date/Time 6/9/22 / 1030	Company KPRG	Received by FEDEX Date/Time 6/9/22 / 1030 Company FEDEX
Relinquished by	Date/Time	Company	Received by STEPHANIE HANNAWAY Date/Time 6/11/22 1050 Company ETA

Custody Seals Intact Yes No Custody Seal No
Cooler Temperature(s) °C and Other Remarks 37+23

ORIGIN ID:PIAA (262) 622-1143
MITCHELL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08JUN22
ACTWGT: 60.50 LB
CAD: 6994780/SSFE2321
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 156287-439-590627-202511/22

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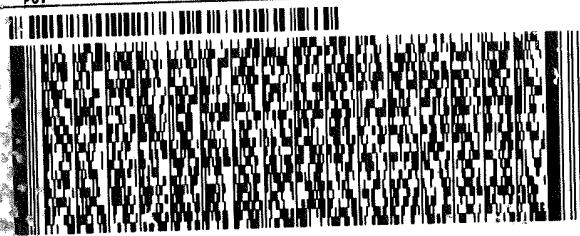
TESTAMERICA LABORATORIES, INC.
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
Express



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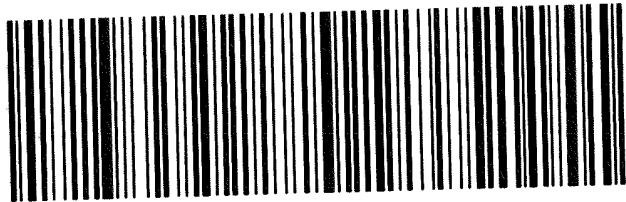
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ORIGIN ID:PIAA (262) 622-1143
MITCHELL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08JUN22
ACTWGT: 55.60 LB
CAD: 6994780/SSFE2321
DIMS: 24x13x14 IN

BILL THIRD PARTY



500-217851 Waybi

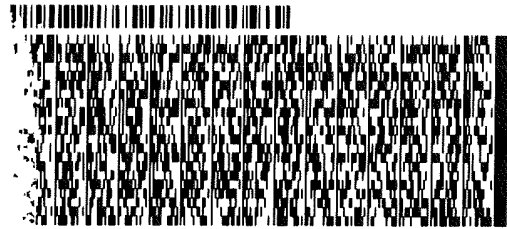
TESTAMERICA LABORATORIES, INC.
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
Express



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3785346

5 of 7

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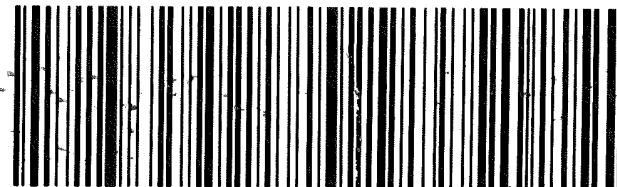
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Part # 156287-439-590627-202511/22

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

SHIP DATE: 09JUN22
ACTWGT: 48.40 LB
CAD: 6994780/SSFE2321
DIP

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500-217851 Waybi

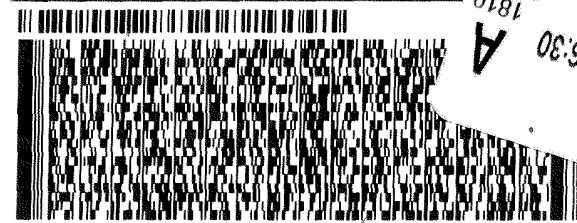
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EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-6200 REF:

INU: PG: DEPT:

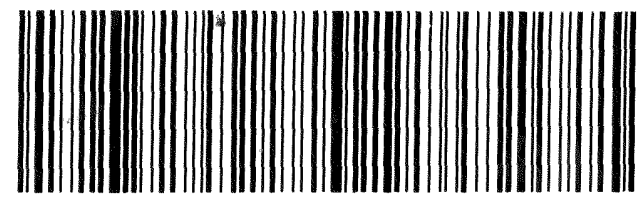


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TRK# 2741 3435 1810
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STANDARD OVERNIGHT

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60484
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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-217851-1

Login Number: 217851

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0,0.8,2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-217851-1

Client Sample ID: MW-15
Date Collected: 06/08/22 14:50
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661262	06/15/22 08:37	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661710	06/16/22 17:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	662363	06/20/22 17:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	662557	06/22/22 14:24	FXG	TAL CHI
Total/NA	Prep	7470A			661706	06/17/22 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662002	06/20/22 11:58	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 01:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 10:57	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 13:41	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 10:52	LP	TAL CHI

Client Sample ID: MW-14
Date Collected: 06/08/22 16:02
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661262	06/15/22 08:37	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661710	06/16/22 17:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	662363	06/20/22 17:53	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	662557	06/22/22 14:27	FXG	TAL CHI
Total/NA	Prep	7470A			661706	06/17/22 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662002	06/20/22 12:00	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 01:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 10:57	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 13:49	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 10:37	LP	TAL CHI

Client Sample ID: MW-17
Date Collected: 06/08/22 13:45
Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661262	06/15/22 08:37	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661710	06/16/22 17:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	662363	06/20/22 17:56	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	662557	06/22/22 14:31	FXG	TAL CHI
Total/NA	Prep	7470A			661706	06/17/22 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662002	06/20/22 12:03	MJG	TAL CHI

Lab Chronicle

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

Job ID: 500-217851-1

Client Sample ID: MW-17

Lab Sample ID: 500-217851-3

Date Collected: 06/08/22 13:45

Matrix: Water

Date Received: 06/09/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 01:32	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 10:58	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 14:02	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 10:37	LP	TAL CHI

Client Sample ID: MW-13

Lab Sample ID: 500-217851-4

Date Collected: 06/08/22 12:50

Matrix: Water

Date Received: 06/09/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661262	06/15/22 08:37	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661710	06/16/22 17:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	662363	06/20/22 18:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	662557	06/22/22 14:34	FXG	TAL CHI
Total/NA	Prep	7470A			661706	06/17/22 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662002	06/20/22 12:05	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 01:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 10:58	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 14:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	660955	06/13/22 10:52	LP	TAL CHI

Client Sample ID: Duplicate

Lab Sample ID: 500-217851-5

Date Collected: 06/08/22 00:00

Matrix: Water

Date Received: 06/09/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661262	06/15/22 08:37	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661710	06/16/22 17:30	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	662363	06/20/22 18:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			661901	06/20/22 08:13	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	662557	06/22/22 14:38	FXG	TAL CHI
Total/NA	Prep	7470A			661706	06/17/22 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662002	06/20/22 12:07	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 01:37	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660740	06/10/22 11:41	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 14:08	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 10:52	LP	TAL CHI

Lab Chronicle

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

Job ID: 500-217851-1

Client Sample ID: MW-20

Lab Sample ID: 500-217851-6

Date Collected: 06/09/22 08:14

Matrix: Water

Date Received: 06/11/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661953	06/17/22 16:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	662010	06/20/22 12:08	FXG	TAL CHI
Total/NA	Prep	7470A			661706	06/17/22 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662002	06/20/22 12:09	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660850	06/13/22 01:40	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	660998	06/13/22 12:11	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 14:11	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	660955	06/13/22 10:53	LP	TAL CHI

Client Sample ID: MW-21

Lab Sample ID: 500-217851-7

Date Collected: 06/09/22 09:16

Matrix: Water

Date Received: 06/11/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	661953	06/17/22 16:15	FXG	TAL CHI
Total Recoverable	Prep	3005A			661434	06/16/22 07:56	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	662010	06/20/22 12:11	FXG	TAL CHI
Total/NA	Prep	7470A			661706	06/17/22 10:15	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662002	06/20/22 12:11	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	660851	06/13/22 08:29	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	660998	06/13/22 12:11	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662032	06/20/22 14:15	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	660955	06/13/22 10:53	LP	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-217851-1

Laboratory: Eurofins Chicago

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

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-217851-2
Client Project/Site: Powerton CCR MCB (RAD)

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

Attn: Richard Gnat



Authorized for release by:
7/11/2022 11:10:38 AM

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

Diana.Mockler@et.eurofinsus.com

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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 CCR MCB (RAD)

Job ID: 500-217851-2

Job ID: 500-217851-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-217851-2

Comments

No additional comments.

Receipt

The samples were received on 6/9/2022 4:20 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 0.0° C, 0.8° C and 2.3° C.

RAD

Method 903.0: Radium-226 batch 570311

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

MW-15 (500-217851-1), MW-14 (500-217851-2), MW-17 (500-217851-3), MW-13 (500-217851-4), Duplicate (500-217851-5), MW-20 (500-217851-6), MW-21 (500-217851-7), (LCS 160-570311/2-A), (MB 160-570311/1-A), (500-217777-E-1-A) and (500-217777-D-1-A DU)

Methods 904.0, 9320, SM7110C, ST-RC-0058: Radium-228 batch 570316

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

MW-15 (500-217851-1), MW-14 (500-217851-2), MW-17 (500-217851-3), MW-13 (500-217851-4), Duplicate (500-217851-5), MW-20 (500-217851-6), MW-21 (500-217851-7), (CCB 160-571241/17), (CCB 160-571241/19), (CCB 160-571384/49), (CCB 160-571384/52), (CCB 160-571384/57), (CCB 160-571384/58), (CCB 160-571384/67), (CCB 160-571384/68), (CCB 160-571384/69), (CCB 160-571384/70), (CCB 160-571384/72), (CCVA 160-571241/38), (CCVA 160-571241/40), (CCVA 160-571384/12), (CCVA 160-571384/3), (CCVA 160-571384/33), (CCVA 160-571384/34), (CCVA 160-571384/4), (CCVA 160-571384/5), (CCVA 160-571384/6), (CCVA 160-571384/8), (CCVA 160-571384/9), (CCVB 160-571241/54), (CCVB 160-571241/56), (CCVB 160-571384/17), (CCVB 160-571384/18), (CCVB 160-571384/25), (CCVB 160-571384/28), (CCVB 160-571384/43), (CCVB 160-571384/44), (CCVB 160-571384/45), (CCVB 160-571384/46), (CCVB 160-571384/48), (LCS 160-570316/2-A), (MB 160-570316/1-A), (500-217777-E-1-B) and (500-217777-D-1-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 CCR MCB (RAD)

Job ID: 500-217851-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-217851-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217851-1	MW-15	Water	06/08/22 14:50	06/09/22 16:20
500-217851-2	MW-14	Water	06/08/22 16:02	06/09/22 16:20
500-217851-3	MW-17	Water	06/08/22 13:45	06/09/22 16:20
500-217851-4	MW-13	Water	06/08/22 12:50	06/09/22 16:20
500-217851-5	Duplicate	Water	06/08/22 00:00	06/09/22 16:20
500-217851-6	MW-20	Water	06/09/22 08:14	06/11/22 10:50
500-217851-7	MW-21	Water	06/09/22 09:16	06/11/22 10:50

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Client Sample Results

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

Job ID: 500-217851-2

Client Sample ID: MW-15

Date Collected: 06/08/22 14:50

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-1

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	0.145		0.0897	0.0906	1.00	0.118	pCi/L	06/16/22 14:09	07/08/22 13:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.8		40 - 110					06/16/22 14:09	07/08/22 13:57	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	<0.612	U	0.390	0.392	1.00	0.612	pCi/L	06/16/22 14:40	06/23/22 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.8		40 - 110					06/16/22 14:40	06/23/22 12:08	1
Y Carrier	86.7		40 - 110					06/16/22 14:40	06/23/22 12:08	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	<0.612	U	0.400	0.402	5.00	0.612	pCi/L		07/11/22 10:32	1

Client Sample ID: MW-14

Date Collected: 06/08/22 16:02

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-2

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	0.115		0.0684	0.0692	1.00	0.0892	pCi/L	06/16/22 14:09	07/08/22 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/16/22 14:09	07/08/22 13:58	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	<0.429	U	0.262	0.263	1.00	0.429	pCi/L	06/16/22 14:40	06/23/22 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		40 - 110					06/16/22 14:40	06/23/22 12:08	1
Y Carrier	87.1		40 - 110					06/16/22 14:40	06/23/22 12:08	1

Client Sample Results

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

Job ID: 500-217851-2

Client Sample ID: MW-14

Date Collected: 06/08/22 16:02

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-2

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.429	U	0.271	0.272	5.00	0.429	pCi/L		07/11/22 10:32	1

Client Sample ID: MW-17

Date Collected: 06/08/22 13:45

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-3

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.0916	U	0.0599	0.0602	1.00	0.0916	pCi/L	06/16/22 14:09	07/08/22 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					06/16/22 14:09	07/08/22 13:58	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	<0.418	U	0.268	0.269	1.00	0.418	pCi/L	06/16/22 14:40	06/23/22 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110					06/16/22 14:40	06/23/22 12:08	1
Y Carrier	89.3		40 - 110					06/16/22 14:40	06/23/22 12:08	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	<0.418	U	0.275	0.276	5.00	0.418	pCi/L		07/11/22 10:32	1

Client Sample ID: MW-13

Date Collected: 06/08/22 12:50

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-4

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	0.144		0.0841	0.0851	1.00	0.108	pCi/L	06/16/22 14:09	07/08/22 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					06/16/22 14:09	07/08/22 13:58	1

Client Sample Results

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

Job ID: 500-217851-2

Client Sample ID: MW-13

Lab Sample ID: 500-217851-4

Date Collected: 06/08/22 12:50

Matrix: Water

Date Received: 06/09/22 16:20

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.502	U	0.301	0.302	1.00	0.502	pCi/L	06/16/22 14:40	06/23/22 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.0		40 - 110					06/16/22 14:40	06/23/22 12:08	1
Y Carrier	87.1		40 - 110					06/16/22 14:40	06/23/22 12:08	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	<0.502	U	0.313	0.314	5.00	0.502	pCi/L		07/11/22 10:32	1

Client Sample ID: Duplicate

Lab Sample ID: 500-217851-5

Date Collected: 06/08/22 00:00

Matrix: Water

Date Received: 06/09/22 16:20

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0846		0.0590	0.0595	1.00	0.0799	pCi/L	06/16/22 14:09	07/08/22 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					06/16/22 14:09	07/08/22 13:58	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	<0.400	U	0.237	0.238	1.00	0.400	pCi/L	06/16/22 14:40	06/23/22 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					06/16/22 14:40	06/23/22 12:08	1
Y Carrier	89.0		40 - 110					06/16/22 14:40	06/23/22 12:08	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	<0.400	U	0.244	0.245	5.00	0.400	pCi/L		07/11/22 10:32	1

Client Sample Results

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

Job ID: 500-217851-2

Client Sample ID: MW-20
 Date Collected: 06/09/22 08:14
 Date Received: 06/11/22 10:50

Lab Sample ID: 500-217851-6
 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	0.154		0.0798	0.0810	1.00	0.0994	pCi/L	06/16/22 14:09	07/08/22 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					06/16/22 14:09	07/08/22 13:59	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	<0.509	U	0.335	0.338	1.00	0.509	pCi/L	06/16/22 14:40	06/23/22 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.8		40 - 110					06/16/22 14:40	06/23/22 12:10	1
Y Carrier	89.0		40 - 110					06/16/22 14:40	06/23/22 12:10	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	0.636		0.344	0.348	5.00	0.509	pCi/L		07/11/22 10:32	1

Client Sample ID: MW-21
 Date Collected: 06/09/22 09:16
 Date Received: 06/11/22 10:50

Lab Sample ID: 500-217851-7
 Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.316		0.0980	0.102	1.00	0.0834	pCi/L	06/16/22 14:09	07/08/22 13:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					06/16/22 14:09	07/08/22 13:59	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	0.637		0.337	0.342	1.00	0.481	pCi/L	06/16/22 14:40	06/23/22 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		40 - 110					06/16/22 14:40	06/23/22 12:10	1
Y Carrier	86.7		40 - 110					06/16/22 14:40	06/23/22 12:10	1

Client Sample Results

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

Job ID: 500-217851-2

Client Sample ID: MW-21

Lab Sample ID: 500-217851-7

Date Collected: 06/09/22 09:16

Matrix: Water

Date Received: 06/11/22 10:50

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	0.953		0.351	0.357	5.00	0.481	pCi/L		07/11/22 10:32	1

- 1
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- 10
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- 12
- 13
- 14

Definitions/Glossary

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

Job ID: 500-217851-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-217851-2

Rad

Prep Batch: 570311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total/NA	Water	PrecSep-21	
500-217851-2	MW-14	Total/NA	Water	PrecSep-21	
500-217851-3	MW-17	Total/NA	Water	PrecSep-21	
500-217851-4	MW-13	Total/NA	Water	PrecSep-21	
500-217851-5	Duplicate	Total/NA	Water	PrecSep-21	
500-217851-6	MW-20	Total/NA	Water	PrecSep-21	
500-217851-7	MW-21	Total/NA	Water	PrecSep-21	
MB 160-570311/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-570311/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 570316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217851-1	MW-15	Total/NA	Water	PrecSep_0	
500-217851-2	MW-14	Total/NA	Water	PrecSep_0	
500-217851-3	MW-17	Total/NA	Water	PrecSep_0	
500-217851-4	MW-13	Total/NA	Water	PrecSep_0	
500-217851-5	Duplicate	Total/NA	Water	PrecSep_0	
500-217851-6	MW-20	Total/NA	Water	PrecSep_0	
500-217851-7	MW-21	Total/NA	Water	PrecSep_0	
MB 160-570316/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-570316/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-217851-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-570311/1-A
Matrix: Water
Analysis Batch: 573267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570311

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.0988	U	0.0508	0.0508	1.00	0.0988	pCi/L	06/16/22 14:09	07/08/22 11:39	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110				06/16/22 14:09		07/08/22 11:39	1

Lab Sample ID: LCS 160-570311/2-A
Matrix: Water
Analysis Batch: 573267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570311

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.944		1.03	1.00	0.0731	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	101		40 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-570316/1-A
Matrix: Water
Analysis Batch: 571384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570316

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.479	U	0.304	0.305	1.00	0.479	pCi/L	06/16/22 14:40	06/23/22 12:07	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	93.3		40 - 110				06/16/22 14:40		06/23/22 12:07	1
Y Carrier	86.4		40 - 110				06/16/22 14:40		06/23/22 12:07	1

Lab Sample ID: LCS 160-570316/2-A
Matrix: Water
Analysis Batch: 571384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570316

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.51	8.878		1.17	1.00	0.454	pCi/L	104	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	101		40 - 110						
Y Carrier	85.6		40 - 110						

Eurofins Chicago

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

Chain of Custody Record

MKE 232



Environm
Anal

Client Information		Sampler <i>Mitchel Dolan</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No 500-101318-44026 1	
Client Contact Mitchel Dolan		Phone <i>262-622-1143</i>	E-Mail Diana.Mockler@et.eurofinsus.com	State of Origin <i>IL</i>	Page Page 1 of 1	
Company KPRG and Associates Inc.		PWSID	Analysis Requested			
Address 414 Plaza Drive Suite 106		Due Date Requested	Job # <i>500-217851</i>			
City Westmont		TAT Requested (days)	Preservation Codes			
State Zip IL 60559		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No	A HCL M Hexane B NaOH N None C Zn Acetate O As/NaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2S2O3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Tizma Z other (specify)			
Phone 262-781-0475(Tel)		PO # 4502081030	Other:			
Email mitchel@kprginc.com		WO #	Field Filtered Sample (Yes or No)			
Project Name Powerton CCR MCB		Project # 50018578	Performs MS/MSD (Yes or No)			
Site		SSOW#	2540C 4500_F_C, SM4500_CL, SM4500_SO4_E			
			9030 - Radium 226			
			9040 Radium 228			
			Ra226Ra228_GPPC Rad Combined			
			6010C, 6020A 7470A			
			Total Number of Containers			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A-Air)	
				Preservation Code		
					N D D D D	
1	MW 15	6/8/22	1450	G	Water	N N X X X X X
2	MW 14	6/8/22	1602	G	Water	N N X X X X X
3	MW 17	6/8/22	1345	G	Water	N N X X X X X
4	MW-13	6/8/22	1250	G	Water	N N X X X X X
5	Duplicate	6/8/22	-	G	Water	N N X X X X X
	Water					
	Water					
	Water					
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements				
Empty Kit Relinquished by		Date	Time	Method of Shipment		
Relinquished by <i>MPO</i>		Date/Time <i>6/8/22 / 1700</i>	Company <i>KPRG</i>	Received by <i>FEDEX</i>	Date/Time <i>6/8/22 / 1700</i>	
Relinquished by		Date/Time	Company	Received by <i>Ann Scott</i>	Date/Time <i>6/9/22 1620</i>	
Relinquished by		Date/Time	Company	Received by	Date/Time <i>Company</i>	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <i>05-200, 113-200</i>		

Eurofins Chicago

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

Chain of Custody Record

MKE 232

eurofins

L A B O R A T O R Y
A T T E N T I O N

Client Information Client Contact Mitchel Dolan Company KPRG and Associates Inc Address 414 Plaza Drive Suite 106 City Westmont State Zip IL 60559 Phone 262 781-0475(Tel) E-mail mitcheld@kprginc.com Project Name Powerton CCR MCB Site		Sampler <i>M. Mitchel Dolan</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No 500-101318-44026 1																																										
		Phone 262-622-1143	E-Mail Diana Mockler@eurofinsus.com	State of Origin IL	Page Page 1 of 1																																										
Due Date Requested		Analysis Requested			Preservation Codes A HCL M Hexane S NaOH N None Zn Acetate C AsNaO2 Nitric Acid P Na2O4S NaHSO4 Q Na2SO3 MeOH R Na2S2O3 Amchlor S H2SO4 Ascorbic Acid T *SP Doocahyu ate ce U Acetone DI Water V MCAA EDTA W pH 4-5 EDA Y Trizma Z other (specify Other:																																										
TAT Requested (days)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Field Filtered Sample (Yes or No)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Parform MS/MSD (Yes or No)</td> <td>2540C</td> <td>4500_F_C</td> <td>SM4500_CL_E</td> <td>SM4500_S04_E</td> <td>903.0</td> <td>Radium 226</td> <td>904.0</td> <td>Radium 228</td> <td>Ra226Ra228</td> <td>GFPC</td> <td>Rad Combined</td> <td>6010C</td> <td>6020A</td> <td>7470A</td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of Containers</td> <td colspan="15"></td> </tr> </table>														Field Filtered Sample (Yes or No)	Parform MS/MSD (Yes or No)	2540C	4500_F_C	SM4500_CL_E	SM4500_S04_E	903.0	Radium 226	904.0	Radium 228	Ra226Ra228	GFPC	Rad Combined	6010C	6020A	7470A	Total Number of Containers															
Field Filtered Sample (Yes or No)	Parform MS/MSD (Yes or No)					2540C	4500_F_C	SM4500_CL_E	SM4500_S04_E	903.0	Radium 226	904.0	Radium 228	Ra226Ra228	GFPC	Rad Combined	6010C	6020A	7470A																												
Total Number of Containers																																															
Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No																																															
PO # 4502081030																																															
WFO #																																															
Projec. # 50018578																																															
SSC#																																															

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oli, BT-Tissue, A=Air)	Preservation Code	N	D	D	D	D	Special Instructions/Note
<i>MW-20</i>	<i>6/9/22</i>	<i>0814</i>	<i>G</i>	<i>Water</i>	<i>IV</i>	<i>N</i>	<i>F</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>MW-21</i>	<i>6/9/22</i>	<i>0916</i>	<i>G</i>	<i>Water</i>	<i>N</i>	<i>N</i>	<i>F</i>	<i>F</i>	<i>X</i>	<i>X</i>	

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

Empty Kit Relinquished by <i>MPO</i>	Date <i>6/9/22</i>	Time <i>1030</i>	Method of Shipment
Relinquished by <i>MPO</i>	Date/Time <i>6/9/22 / 1030</i>	Company <i>KPRG</i>	Received by <i>FEDEX</i>
Relinquished by	Date/Time	Company	Received by <i>Stephanie Hammond</i>
Relinquished by	Date/Time	Company	Received by <i>FETA</i>
Custody Seals Intact. <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature: <i>s °C</i> and Other Remarks <i>37+23</i>	

ORIGIN ID:PIAA (262) 622-1143
MITCHELL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08JUN22
ACTWGT: 60.50 LB
CAD: 6994780/SSFE2321
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 156287-439-590922-202511/22

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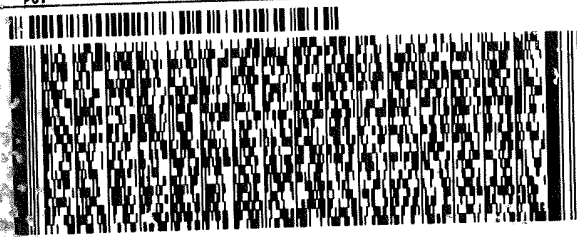
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2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

DEPT:



FedEx
Express



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7 of 7

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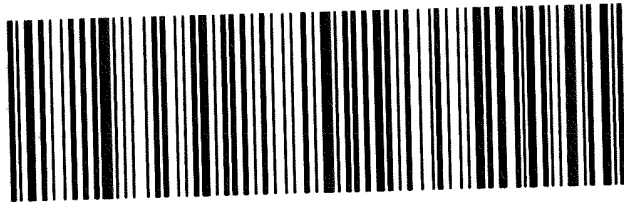
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STANDARD OVERNIGHT

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ORIGIN ID:PIAA (262) 622-1143
MITCHELL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08JUN22
ACTWGT: 55.60 LB
CAD: 6994780/SSFE2321
DIMS: 24x13x14 IN

BILL THIRD PARTY

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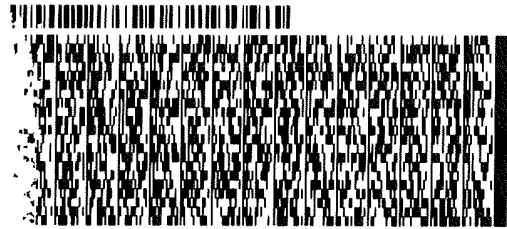
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2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

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MPS# 2741 1016 5906
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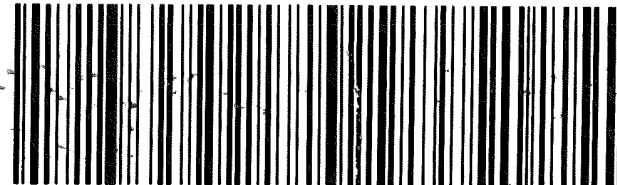
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ORIGIN ID:PIAA (262) 622-1143
MITCHELL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT # IL 60559
UNITED STATES US

SHIP DATE: 09JUN22
ACTWGT: 48.40 LB
CAD: 6994780/SSFE2321
DIP

BI



500-217851 Waybi

Part # 150227-951 150922 EXP 1/1/22

TO **EUROFINS CHICAGO**
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

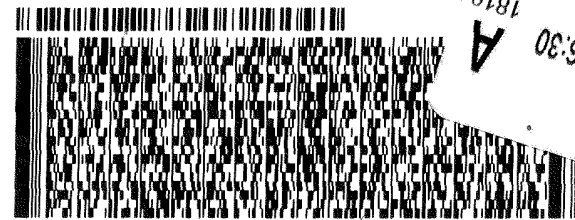
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INU:

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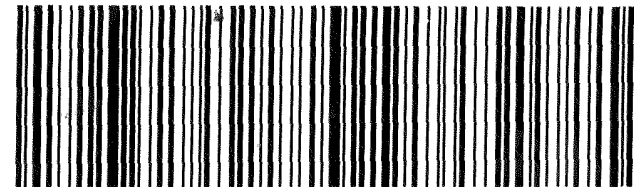
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TRK# 2741 3435 1810
0201

FRI - 10 JUN 4:30P
STANDARD OVERNIGHT

UF JOTA

AHS
60484
IL-US ORD



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

Chain of Custody Record



Environment Testing
America



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carmer Tracking No(s): 500-161918.1	
Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-217851-2	
Address: 13715 Rider Trail North,		Due Date Requested: 6/29/2022		TAT Requested (days):	
City: Earth City	State: MO	Zip: 63045	PO #: 314-298-8566(Tel) 314-298-8757(Fax)		
Phone: 314-298-8566	WO #:	Project #:	50018578		
Email:		SSOW#:			
Project Name: Powerton CCR MCB (RAD)					
Site:					

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, B=biological, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep. 21 Standard Target List	904.0/PreSep. 0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
MW-15 (500-217851-1)	6/8/22	14:50 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup. spikes, etc) - no
MW-14 (500-217851-2)	6/8/22	16:02 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup. spikes, etc) - no
MW-17 (500-217851-3)	6/8/22	13:45 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup. spikes, etc) - no
MW-13 (500-217851-4)	6/8/22	12:50 Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup. spikes, etc) - no
Duplicate (500-217851-5)	6/8/22	Central	Water	Water		X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup. spikes, etc) - no

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) _____
Primary Deliverable Rank: 2
Date: _____ Time: _____
Method of Shipment: _____
Special Instructions/QC Requirements: _____

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

Relinquished by: *Shirley Smith* Date/Time: 6/10/22 1600
Relinquished by: **FED EX** Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____
Custody Seals Intact: Yes No
Custody Seal No.: _____
Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-217851-2

Login Number: 217851

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0,0.8,2.3
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: 500-217851-2

Login Number: 217851

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 06/13/22 01:10 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	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-217851-2

Login Number: 217851

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 06/14/22 11:51 AM

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

Lab Chronicle

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

Job ID: 500-217851-2

Client Sample ID: MW-15

Date Collected: 06/08/22 14:50

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570311	06/16/22 14:09	MS	TAL SL
Total/NA	Analysis	903.0		1	573267	07/08/22 13:57	EMH	TAL SL
Total/NA	Prep	PrecSep_0			570316	06/16/22 14:40	MS	TAL SL
Total/NA	Analysis	904.0		1	571384	06/23/22 12:08	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573390	07/11/22 10:32	CAH	TAL SL

Client Sample ID: MW-14

Date Collected: 06/08/22 16:02

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570311	06/16/22 14:09	MS	TAL SL
Total/NA	Analysis	903.0		1	573267	07/08/22 13:58	EMH	TAL SL
Total/NA	Prep	PrecSep_0			570316	06/16/22 14:40	MS	TAL SL
Total/NA	Analysis	904.0		1	571384	06/23/22 12:08	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573390	07/11/22 10:32	CAH	TAL SL

Client Sample ID: MW-17

Date Collected: 06/08/22 13:45

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570311	06/16/22 14:09	MS	TAL SL
Total/NA	Analysis	903.0		1	573267	07/08/22 13:58	EMH	TAL SL
Total/NA	Prep	PrecSep_0			570316	06/16/22 14:40	MS	TAL SL
Total/NA	Analysis	904.0		1	571384	06/23/22 12:08	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573390	07/11/22 10:32	CAH	TAL SL

Client Sample ID: MW-13

Date Collected: 06/08/22 12:50

Date Received: 06/09/22 16:20

Lab Sample ID: 500-217851-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570311	06/16/22 14:09	MS	TAL SL
Total/NA	Analysis	903.0		1	573267	07/08/22 13:58	EMH	TAL SL
Total/NA	Prep	PrecSep_0			570316	06/16/22 14:40	MS	TAL SL
Total/NA	Analysis	904.0		1	571384	06/23/22 12:08	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573390	07/11/22 10:32	CAH	TAL SL

Lab Chronicle

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

Job ID: 500-217851-2

Client Sample ID: Duplicate

Lab Sample ID: 500-217851-5

Date Collected: 06/08/22 00:00

Matrix: Water

Date Received: 06/09/22 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570311	06/16/22 14:09	MS	TAL SL
Total/NA	Analysis	903.0		1	573267	07/08/22 13:58	EMH	TAL SL
Total/NA	Prep	PrecSep_0			570316	06/16/22 14:40	MS	TAL SL
Total/NA	Analysis	904.0		1	571384	06/23/22 12:08	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573390	07/11/22 10:32	CAH	TAL SL

Client Sample ID: MW-20

Lab Sample ID: 500-217851-6

Date Collected: 06/09/22 08:14

Matrix: Water

Date Received: 06/11/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570311	06/16/22 14:09	MS	TAL SL
Total/NA	Analysis	903.0		1	573267	07/08/22 13:59	EMH	TAL SL
Total/NA	Prep	PrecSep_0			570316	06/16/22 14:40	MS	TAL SL
Total/NA	Analysis	904.0		1	571241	06/23/22 12:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573390	07/11/22 10:32	CAH	TAL SL

Client Sample ID: MW-21

Lab Sample ID: 500-217851-7

Date Collected: 06/09/22 09:16

Matrix: Water

Date Received: 06/11/22 10:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570311	06/16/22 14:09	MS	TAL SL
Total/NA	Analysis	903.0		1	573267	07/08/22 13:59	EMH	TAL SL
Total/NA	Prep	PrecSep_0			570316	06/16/22 14:40	MS	TAL SL
Total/NA	Analysis	904.0		1	571241	06/23/22 12:10	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573390	07/11/22 10:32	CAH	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-217851-2

Laboratory: Eurofins St. Louis

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

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

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

Tracer/Carrier Summary

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

Job ID: 500-217851-2

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)	
500-217851-1	MW-15	70.8	
500-217851-2	MW-14	100	
500-217851-3	MW-17	103	
500-217851-4	MW-13	78.0	
500-217851-5	Duplicate	99.5	
500-217851-6	MW-20	92.8	
500-217851-7	MW-21	99.5	
LCS 160-570311/2-A	Lab Control Sample	101	
MB 160-570311/1-A	Method Blank	93.3	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-217851-1	MW-15	70.8	86.7
500-217851-2	MW-14	100	87.1
500-217851-3	MW-17	103	89.3
500-217851-4	MW-13	78.0	87.1
500-217851-5	Duplicate	99.5	89.0
500-217851-6	MW-20	92.8	89.0
500-217851-7	MW-21	99.5	86.7
LCS 160-570316/2-A	Lab Control Sample	101	85.6
MB 160-570316/1-A	Method Blank	93.3	86.4

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

Date: 6/6/2022

NRG - Groundwater Levels. Location: Powerton

<u>Well ID</u>	<u>Depth to Water</u>	<u>Time</u>	<u>Notes</u>
MW-01	22.13	1348	
MW-02	22.71	1350	
MW-03	22.50	1353	
MW-04	22.89	1356	
MW-05	20.31	1358	
MW-06	17.06	1405	NON-CCR WELL
MW-07	24.65	1407	NON-CCR WELL
MW-08	25.04	1410	
MW-09	22.95	1336	
MW-10	14.07	1345	
MW-11	27.55	1342	
MW-12	22.65	1432	
MW-13	28.61	1427	
MW-14	24.10	1415	
MW-15	24.29	1413	
MW-16	24.50	1327	NON-CCR WELL
MW-17	19.45	1425	
MW-18	25.71	1438	
MW-19	21.05	1339	
MW-20	26.10	1418	
MW-21	27.55	1420	
FAB	4.88	1441	
MCB	—	1422	No water at gauge
ASB	—	1435	No water at gauge
Bypass Basin	2.08	1433	

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	6/8/22
Sample Name	MW-13	Start Time	1232	
Condition of Well	Good			
Water Level	28.61	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	SL Cloudy	
Volume Removed	2 gal	WL at Sample Time	28.61	
Method of Sample	Low-Flow	Sample Characteristics	Clear	
Sample Analysis	CCR MOB + CCA w/ Rad	Sample Time	1250	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1234	28.61	8.03	14.8	2.242	7.20	120.9	37.88
1239	-	7.96	14.8	2.623	1.04	17.2	28.94
1244	-	7.97	14.9	2.582	0.57	-84.4	31.40
1249	28.61	7.96	14.8	2.502	0.43	-114.8	30.66

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

WMPD

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	6/8/22
Sample Name	MW-14	Start Time	1545	
Condition of Well	Good			
Water Level	24.14	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	Cloudy - orange	
Volume Removed	2 gal	WL at Sample Time	24.16	
Method of Sample	Low-Flow	Sample Characteristics	SL Cloudy - Orange Hue	
Sample Analysis	CCR MCB + CCA w/ Rad	Sample Time	1602	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1546	24.14	7.40	17.2	2.141	7.28	173.1	48.11
1551	-	7.16	15.3	2.635	0.97	177.5	120.1
1556	-	7.13	15.6	2.655	0.63	174.2	106.24
1601	24.16	7.12	15.3	2.699	0.50	165.0	19.54

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

MPO

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	6/8/22
Sample Name	MW-15	Start Time	1432	
Condition of Well	Good			
Water Level	24.30	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	Cloudy	
Volume Removed	2 gal	WL at Sample Time	24.38	
Method of Sample	Low-Flow	Sample Characteristics	Clear	
Sample Analysis	ABB/ASB + MCB CCR + CCA w/ Rad	Sample Time	1450	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	pH (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1433	24.30	7.16	15.8	2.706	4.91	157.8	95.98
1438	-	6.88	15.9	3.120	0.92	166.1	92.33
1443	-	6.87	15.9	3.170	0.67	159.9	12.58
1448	24.38	6.87	16.0	3.161	0.63	157.6	10.32

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

MPO

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	6/8/22
Sample Name	MW-17	Start Time	1328	
Condition of Well	Good			
Water Level	19.45	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	SL Cloudy	
Volume Removed	2 gal	WL at Sample Time	19.49	
Method of Sample	Low-Flow	Sample Characteristics	Clear	
Sample Analysis	ABB/ASB + MCB CCR	Sample Time	1345	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1329	19.45	7.71	15.7	1.767	6.44	110.3	67.25
1334	-	7.51	15.3	2.401	2.02	96.0	69.60
1339	-	7.51	15.2	2.357	3.33	97.0	47.21
1344	19.49	7.51	15.1	2.357	3.69	98.4	41.49

SAMPLING NOTES:

CCR MCB Duplicate

Sampler Name and Company:

KPRG and Associates

MPO

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	6/19/20
Sample Name	MW-20	Start Time	0756	
Condition of Well	Good			
Water Level	26.08	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	Clear	
Volume Removed	0.75 gal	WL at Sample Time	Below Top of Pump	
Method of Sample	Low-Flow	Sample Characteristics	Clear	
Sample Analysis	CCR MCB	Sample Time	0814	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0758	26.08	7.20	15.2	2.199	6.45	216.7	31.25
0803	-	6.75	14.6	1.664	1.47	232.6	11.17
0808	-	6.72	14.7	1.678	0.95	231.1	7.11
0813	Below Pump	6.73	14.7	1.712	0.97	226.6	19.31

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates *WMP*

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	6/9/22
Sample Name	MW-21	Start Time	0900	
Condition of Well	Good			
Water Level	27.48	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	Clear	
Volume Removed	0.75 gal	WL at Sample Time	Below Top of Pump	
Method of Sample	Low-Flow	Sample Characteristics	Clear	
Sample Analysis	CCR MCB	Sample Time	0916	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
0902	27.48	6.98	15.7	1.329	5.18	188.6	49.02
0907	-	6.91	14.5	1.221	1.20	-30.5	7.70
0912	-	6.91	14.4	1.218	0.86	-67.1	7.24
0915	Below Pump	6.91	14.4	1.215	0.69	-81.6	7.56

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

MJD