

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 3rd quarter 2022 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit submitted October 31, 2021. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.

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

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

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

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

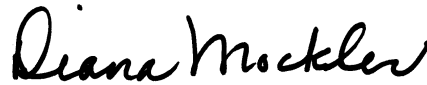
ANALYTICAL REPORT

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

Laboratory Job ID: 500-221556-1
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
9/29/2022 9:26:27 AM

Diana Mockler, Project Manager I
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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

Job ID: 500-221556-1

Job ID: 500-221556-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-221556-1

Comments

No additional comments.

Receipt

The samples were received on 8/31/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.3° C, 0.9° C, 4.0° C and 5.9° C.

Metals

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

General Chemistry

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

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Method Summary

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

Job ID: 500-221556-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-221556-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221556-1	MW-01	Water	08/30/22 09:32	08/31/22 09:30
500-221556-2	MW-08	Water	08/30/22 14:13	08/31/22 09:30
500-221556-3	MW-18	Water	08/30/22 15:20	08/31/22 09:30
500-221556-4	MW-19	Water	08/30/22 15:56	08/31/22 09:30
500-221556-5	Duplicate	Water	08/30/22 00:00	08/31/22 09:30
500-221556-6	MW-09	Water	08/31/22 09:03	09/01/22 09:30
500-221556-7	MW-11	Water	08/31/22 10:14	09/01/22 09:30
500-221556-8	MW-12	Water	08/31/22 11:25	09/01/22 09:30
500-221556-9	MW-15	Water	08/31/22 12:31	09/01/22 09:30
500-221556-10	MW-17	Water	08/31/22 14:04	09/01/22 09:30

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Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-01
Date Collected: 08/30/22 09:32
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-1
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		09/02/22 07:45	09/08/22 23:34	1
Arsenic	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:34	1
Barium	0.076		0.0025		mg/L		09/02/22 07:45	09/08/22 23:34	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:34	1
Boron	0.59		0.050		mg/L		09/02/22 07:45	09/09/22 16:17	1
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:34	1
Calcium	100		0.20		mg/L		09/02/22 07:45	09/08/22 23:34	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/08/22 23:34	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:34	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:34	1
Lithium	<0.010		0.010		mg/L		09/02/22 07:45	09/09/22 16:17	1
Molybdenum	<0.0050		0.0050		mg/L		09/02/22 07:45	09/08/22 23:34	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/08/22 23:34	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/08/22 23:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		10		mg/L			09/06/22 17:42	1
Chloride	44		4.0		mg/L			09/01/22 12:40	2
Fluoride	0.13		0.10		mg/L			09/10/22 13:54	1
Sulfate	66		10		mg/L			09/01/22 15:00	2

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-08
Date Collected: 08/30/22 14:13
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-2
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		09/02/22 07:45	09/08/22 23:38	1
Arsenic	0.0027		0.0010		mg/L		09/02/22 07:45	09/08/22 23:38	1
Barium	0.15		0.0025		mg/L		09/02/22 07:45	09/08/22 23:38	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:38	1
Boron	0.70		0.050		mg/L		09/02/22 07:45	09/09/22 16:20	1
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:38	1
Calcium	140		0.20		mg/L		09/02/22 07:45	09/08/22 23:38	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/08/22 23:38	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:38	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:38	1
Lithium	0.023		0.010		mg/L		09/02/22 07:45	09/09/22 16:20	1
Molybdenum	0.0083		0.0050		mg/L		09/02/22 07:45	09/08/22 23:38	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/08/22 23:38	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/08/22 23:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			09/06/22 17:43	1
Chloride	210		20		mg/L			09/01/22 12:40	10
Fluoride	0.32		0.10		mg/L			09/10/22 13:57	1
Sulfate	50		10		mg/L			09/01/22 15:00	2

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-18

Lab Sample ID: 500-221556-3

Date Collected: 08/30/22 15:20

Matrix: Water

Date Received: 08/31/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/22 07:45	09/08/22 23:41	1
Arsenic	0.0085		0.0010		mg/L		09/02/22 07:45	09/08/22 23:41	1
Barium	0.23		0.0025		mg/L		09/02/22 07:45	09/08/22 23:41	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:41	1
Boron	0.66		0.050		mg/L		09/02/22 07:45	09/09/22 16:24	1
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:41	1
Calcium	130		0.20		mg/L		09/02/22 07:45	09/08/22 23:41	1
Chromium	0.0071		0.0050		mg/L		09/02/22 07:45	09/08/22 23:41	1
Cobalt	0.0027		0.0010		mg/L		09/02/22 07:45	09/08/22 23:41	1
Lead	0.0039		0.00050		mg/L		09/02/22 07:45	09/08/22 23:41	1
Lithium	0.016		0.010		mg/L		09/02/22 07:45	09/09/22 16:24	1
Molybdenum	0.0056		0.0050		mg/L		09/02/22 07:45	09/08/22 23:41	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/08/22 23:41	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/08/22 23:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			09/06/22 17:45	1
Chloride	160		20		mg/L			09/01/22 12:41	10
Fluoride	0.55		0.10		mg/L			09/10/22 13:59	1
Sulfate	240		50		mg/L			09/01/22 15:01	10

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-19
Date Collected: 08/30/22 15:56
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-4
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		09/02/22 07:45	09/08/22 23:45	1
Arsenic	0.0027		0.0010		mg/L		09/02/22 07:45	09/08/22 23:45	1
Barium	0.15		0.0025		mg/L		09/02/22 07:45	09/08/22 23:45	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:45	1
Boron	0.69		0.050		mg/L		09/02/22 07:45	09/09/22 16:27	1
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:45	1
Calcium	140		0.20		mg/L		09/02/22 07:45	09/08/22 23:45	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/08/22 23:45	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:45	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:45	1
Lithium	0.023		0.010		mg/L		09/02/22 07:45	09/09/22 16:27	1
Molybdenum	0.0082		0.0050		mg/L		09/02/22 07:45	09/08/22 23:45	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/08/22 23:45	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/08/22 23:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			09/06/22 17:46	1
Chloride	200		20		mg/L			09/01/22 13:59	10
Fluoride	0.32		0.10		mg/L			09/10/22 14:03	1
Sulfate	45		25		mg/L			09/01/22 14:44	5

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: Duplicate
Date Collected: 08/30/22 00:00
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/22 07:45	09/08/22 23:48	1
Arsenic	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:48	1
Barium	0.063		0.0025		mg/L		09/02/22 07:45	09/08/22 23:48	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:48	1
Boron	3.3		0.50		mg/L		09/02/22 07:45	09/09/22 16:31	10
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:48	1
Calcium	80		0.20		mg/L		09/02/22 07:45	09/08/22 23:48	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/08/22 23:48	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:48	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:48	1
Lithium	<0.010		0.010		mg/L		09/02/22 07:45	09/13/22 13:08	1
Molybdenum	0.043		0.0050		mg/L		09/02/22 07:45	09/08/22 23:48	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/08/22 23:48	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/08/22 23:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			09/06/22 17:47	1
Chloride	36		20		mg/L			09/01/22 12:41	10
Fluoride	0.16		0.10		mg/L			09/10/22 14:06	1
Sulfate	140		50		mg/L			09/01/22 14:45	10

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-09

Lab Sample ID: 500-221556-6

Date Collected: 08/31/22 09:03

Matrix: Water

Date Received: 09/01/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/22 07:45	09/08/22 23:52	1
Arsenic	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:52	1
Barium	0.036		0.0025		mg/L		09/02/22 07:45	09/08/22 23:52	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:52	1
Boron	3.2		0.50		mg/L		09/02/22 07:45	09/09/22 16:34	10
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:52	1
Calcium	79		0.20		mg/L		09/02/22 07:45	09/08/22 23:52	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/08/22 23:52	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:52	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:52	1
Lithium	<0.010		0.010		mg/L		09/02/22 07:45	09/13/22 13:12	1
Molybdenum	0.024		0.0050		mg/L		09/02/22 07:45	09/08/22 23:52	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/08/22 23:52	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/08/22 23:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10		mg/L			09/07/22 18:43	1
Chloride	30		4.0		mg/L			09/09/22 17:28	2
Fluoride	0.18		0.10		mg/L			09/10/22 14:08	1
Sulfate	140		50		mg/L			09/09/22 19:07	10

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-11

Lab Sample ID: 500-221556-7

Date Collected: 08/31/22 10:14

Matrix: Water

Date Received: 09/01/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/22 07:45	09/09/22 00:02	1
Arsenic	0.016		0.0010		mg/L		09/02/22 07:45	09/09/22 00:02	1
Barium	0.20		0.0025		mg/L		09/02/22 07:45	09/09/22 00:02	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/09/22 00:02	1
Boron	1.2		0.25		mg/L		09/02/22 07:45	09/09/22 16:37	5
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/09/22 00:02	1
Calcium	120		0.20		mg/L		09/02/22 07:45	09/09/22 00:02	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/09/22 00:02	1
Cobalt	0.0017		0.0010		mg/L		09/02/22 07:45	09/09/22 00:02	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/09/22 00:02	1
Lithium	<0.010		0.010		mg/L		09/02/22 07:45	09/13/22 13:15	1
Molybdenum	0.020		0.0050		mg/L		09/02/22 07:45	09/09/22 00:02	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/09/22 00:02	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/09/22 00:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	830		10		mg/L			09/07/22 18:44	1
Chloride	100		20		mg/L			09/09/22 17:29	10
Fluoride	0.61		0.10		mg/L			09/10/22 14:17	1
Sulfate	190		50		mg/L			09/09/22 19:08	10

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-12
Date Collected: 08/31/22 11:25
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-8
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		09/02/22 07:45	09/09/22 00:05	1
Arsenic	0.099		0.0010		mg/L		09/02/22 07:45	09/09/22 00:05	1
Barium	0.11		0.0025		mg/L		09/02/22 07:45	09/09/22 00:05	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/09/22 00:05	1
Boron	0.62		0.050		mg/L		09/02/22 07:45	09/09/22 16:41	1
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/09/22 00:05	1
Calcium	100		0.20		mg/L		09/02/22 07:45	09/09/22 00:05	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/09/22 00:05	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/09/22 00:05	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/09/22 00:05	1
Lithium	0.014		0.010		mg/L		09/02/22 07:45	09/09/22 16:41	1
Molybdenum	0.021		0.0050		mg/L		09/02/22 07:45	09/09/22 00:05	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/09/22 00:05	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/09/22 00:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	870		10		mg/L			09/07/22 18:46	1
Chloride	150		20		mg/L			09/09/22 17:29	10
Fluoride	0.50		0.10		mg/L			09/10/22 14:20	1
Sulfate	260		50		mg/L			09/09/22 19:08	10

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-15

Lab Sample ID: 500-221556-9

Date Collected: 08/31/22 12:31

Matrix: Water

Date Received: 09/01/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/22 07:45	09/09/22 00:09	1
Arsenic	0.0049		0.0010		mg/L		09/02/22 07:45	09/09/22 00:09	1
Barium	0.057		0.0025		mg/L		09/02/22 07:45	09/09/22 00:09	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/09/22 00:09	1
Boron	1.5		0.25		mg/L		09/02/22 07:45	09/09/22 16:44	5
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/09/22 00:09	1
Calcium	210		0.20		mg/L		09/02/22 07:45	09/09/22 00:09	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/09/22 00:09	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/09/22 00:09	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/09/22 00:09	1
Lithium	0.032		0.010		mg/L		09/02/22 07:45	09/13/22 13:19	1
Molybdenum	0.021		0.0050		mg/L		09/02/22 07:45	09/09/22 00:09	1
Selenium	0.0078		0.0025		mg/L		09/02/22 07:45	09/09/22 00:09	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/09/22 00:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1800		10		mg/L			09/07/22 18:47	1
Chloride	270		20		mg/L			09/09/22 17:29	10
Fluoride	0.48		0.10		mg/L			09/10/22 14:22	1
Sulfate	530		250		mg/L			09/09/22 19:08	50

Client Sample Results

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

Job ID: 500-221556-1

Client Sample ID: MW-17

Lab Sample ID: 500-221556-10

Date Collected: 08/31/22 14:04

Matrix: Water

Date Received: 09/01/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/22 07:45	09/09/22 00:12	1
Arsenic	0.0030		0.0010		mg/L		09/02/22 07:45	09/09/22 00:12	1
Barium	0.031		0.0025		mg/L		09/02/22 07:45	09/09/22 00:12	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/09/22 00:12	1
Boron	1.1		0.25		mg/L		09/02/22 07:45	09/09/22 16:48	5
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/09/22 00:12	1
Calcium	150		0.20		mg/L		09/02/22 07:45	09/09/22 00:12	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/09/22 00:12	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/09/22 00:12	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/09/22 00:12	1
Lithium	0.016		0.010		mg/L		09/02/22 07:45	09/13/22 19:04	1
Molybdenum	0.024		0.0050		mg/L		09/02/22 07:45	09/09/22 00:12	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/09/22 00:12	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/09/22 00:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			09/07/22 18:48	1
Chloride	170		20		mg/L			09/09/22 17:30	10
Fluoride	0.73		0.10		mg/L			09/10/22 14:25	1
Sulfate	430		250		mg/L			09/09/22 19:09	50

Definitions/Glossary

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

Job ID: 500-221556-1

Glossary

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

QC Association Summary

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

Job ID: 500-221556-1

Metals

Prep Batch: 672889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total Recoverable	Water	3005A	
500-221556-2	MW-08	Total Recoverable	Water	3005A	
500-221556-3	MW-18	Total Recoverable	Water	3005A	
500-221556-4	MW-19	Total Recoverable	Water	3005A	
500-221556-5	Duplicate	Total Recoverable	Water	3005A	
500-221556-6	MW-09	Total Recoverable	Water	3005A	
500-221556-7	MW-11	Total Recoverable	Water	3005A	
500-221556-8	MW-12	Total Recoverable	Water	3005A	
500-221556-9	MW-15	Total Recoverable	Water	3005A	
500-221556-10	MW-17	Total Recoverable	Water	3005A	
MB 500-672889/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-672889/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 673830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total/NA	Water	7470A	
500-221556-2	MW-08	Total/NA	Water	7470A	
500-221556-3	MW-18	Total/NA	Water	7470A	
500-221556-4	MW-19	Total/NA	Water	7470A	
500-221556-5	Duplicate	Total/NA	Water	7470A	
500-221556-6	MW-09	Total/NA	Water	7470A	
500-221556-7	MW-11	Total/NA	Water	7470A	
500-221556-8	MW-12	Total/NA	Water	7470A	
500-221556-9	MW-15	Total/NA	Water	7470A	
500-221556-10	MW-17	Total/NA	Water	7470A	
MB 500-673830/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-673830/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-221556-7 MS	MW-11	Total/NA	Water	7470A	
500-221556-7 MSD	MW-11	Total/NA	Water	7470A	
500-221556-7 DU	MW-11	Total/NA	Water	7470A	

Analysis Batch: 673884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total Recoverable	Water	6020A	672889
500-221556-2	MW-08	Total Recoverable	Water	6020A	672889
500-221556-3	MW-18	Total Recoverable	Water	6020A	672889
500-221556-4	MW-19	Total Recoverable	Water	6020A	672889
500-221556-5	Duplicate	Total Recoverable	Water	6020A	672889
500-221556-6	MW-09	Total Recoverable	Water	6020A	672889
500-221556-7	MW-11	Total Recoverable	Water	6020A	672889
500-221556-8	MW-12	Total Recoverable	Water	6020A	672889
500-221556-9	MW-15	Total Recoverable	Water	6020A	672889
500-221556-10	MW-17	Total Recoverable	Water	6020A	672889
MB 500-672889/1-A	Method Blank	Total Recoverable	Water	6020A	672889
LCS 500-672889/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672889

Analysis Batch: 674091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total Recoverable	Water	6020A	672889
500-221556-2	MW-08	Total Recoverable	Water	6020A	672889
500-221556-3	MW-18	Total Recoverable	Water	6020A	672889

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QC Association Summary

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

Job ID: 500-221556-1

Metals (Continued)

Analysis Batch: 674091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-4	MW-19	Total Recoverable	Water	6020A	672889
500-221556-5	Duplicate	Total Recoverable	Water	6020A	672889
500-221556-6	MW-09	Total Recoverable	Water	6020A	672889
500-221556-7	MW-11	Total Recoverable	Water	6020A	672889
500-221556-8	MW-12	Total Recoverable	Water	6020A	672889
500-221556-9	MW-15	Total Recoverable	Water	6020A	672889
500-221556-10	MW-17	Total Recoverable	Water	6020A	672889
MB 500-672889/1-A	Method Blank	Total Recoverable	Water	6020A	672889
LCS 500-672889/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672889

Analysis Batch: 674169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total/NA	Water	7470A	673830
500-221556-2	MW-08	Total/NA	Water	7470A	673830
500-221556-3	MW-18	Total/NA	Water	7470A	673830
500-221556-4	MW-19	Total/NA	Water	7470A	673830
500-221556-5	Duplicate	Total/NA	Water	7470A	673830
500-221556-6	MW-09	Total/NA	Water	7470A	673830
500-221556-7	MW-11	Total/NA	Water	7470A	673830
500-221556-8	MW-12	Total/NA	Water	7470A	673830
500-221556-9	MW-15	Total/NA	Water	7470A	673830
500-221556-10	MW-17	Total/NA	Water	7470A	673830
MB 500-673830/12-A	Method Blank	Total/NA	Water	7470A	673830
LCS 500-673830/13-A	Lab Control Sample	Total/NA	Water	7470A	673830
500-221556-7 MS	MW-11	Total/NA	Water	7470A	673830
500-221556-7 MSD	MW-11	Total/NA	Water	7470A	673830
500-221556-7 DU	MW-11	Total/NA	Water	7470A	673830

Analysis Batch: 674440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-5	Duplicate	Total Recoverable	Water	6020A	672889
500-221556-6	MW-09	Total Recoverable	Water	6020A	672889
500-221556-7	MW-11	Total Recoverable	Water	6020A	672889
500-221556-9	MW-15	Total Recoverable	Water	6020A	672889

Analysis Batch: 674538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-10	MW-17	Total Recoverable	Water	6020A	672889

General Chemistry

Analysis Batch: 672805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-221556-2	MW-08	Total/NA	Water	SM 4500 CI- E	
500-221556-3	MW-18	Total/NA	Water	SM 4500 CI- E	
500-221556-4	MW-19	Total/NA	Water	SM 4500 CI- E	
500-221556-5	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-672805/58	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-672805/59	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

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

Job ID: 500-221556-1

General Chemistry

Analysis Batch: 672849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-221556-2	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-221556-3	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-221556-4	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-221556-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-672849/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-672849/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 673325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total/NA	Water	SM 2540C	
500-221556-2	MW-08	Total/NA	Water	SM 2540C	
500-221556-3	MW-18	Total/NA	Water	SM 2540C	
500-221556-4	MW-19	Total/NA	Water	SM 2540C	
500-221556-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-673325/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-673325/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 673533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-6	MW-09	Total/NA	Water	SM 2540C	
500-221556-7	MW-11	Total/NA	Water	SM 2540C	
500-221556-8	MW-12	Total/NA	Water	SM 2540C	
500-221556-9	MW-15	Total/NA	Water	SM 2540C	
500-221556-10	MW-17	Total/NA	Water	SM 2540C	
MB 500-673533/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-673533/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 673960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-221556-7	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-221556-8	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-221556-9	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-221556-10	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-673960/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-673960/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 673965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-221556-7	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-221556-8	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-221556-9	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-221556-10	MW-17	Total/NA	Water	SM 4500 SO4 E	
MB 500-673965/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-673965/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 674042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total/NA	Water	SM 4500 F C	

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QC Association Summary

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

Job ID: 500-221556-1

General Chemistry (Continued)

Analysis Batch: 674042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-2	MW-08	Total/NA	Water	SM 4500 F C	
500-221556-3	MW-18	Total/NA	Water	SM 4500 F C	
500-221556-4	MW-19	Total/NA	Water	SM 4500 F C	
500-221556-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-221556-6	MW-09	Total/NA	Water	SM 4500 F C	
500-221556-7	MW-11	Total/NA	Water	SM 4500 F C	
500-221556-8	MW-12	Total/NA	Water	SM 4500 F C	
500-221556-9	MW-15	Total/NA	Water	SM 4500 F C	
500-221556-10	MW-17	Total/NA	Water	SM 4500 F C	
MB 500-674042/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-674042/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

Job ID: 500-221556-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-672889/1-A
Matrix: Water
Analysis Batch: 673884

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672889

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		09/02/22 07:45	09/08/22 23:21	1
Arsenic	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:21	1
Barium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/08/22 23:21	1
Beryllium	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:21	1
Cadmium	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:21	1
Calcium	<0.20		0.20		mg/L		09/02/22 07:45	09/08/22 23:21	1
Chromium	<0.0050		0.0050		mg/L		09/02/22 07:45	09/08/22 23:21	1
Cobalt	<0.0010		0.0010		mg/L		09/02/22 07:45	09/08/22 23:21	1
Lead	<0.00050		0.00050		mg/L		09/02/22 07:45	09/08/22 23:21	1
Molybdenum	<0.0050		0.0050		mg/L		09/02/22 07:45	09/08/22 23:21	1
Selenium	<0.0025		0.0025		mg/L		09/02/22 07:45	09/08/22 23:21	1
Thallium	<0.0020		0.0020		mg/L		09/02/22 07:45	09/08/22 23:21	1

Lab Sample ID: MB 500-672889/1-A
Matrix: Water
Analysis Batch: 674091

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672889

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		09/02/22 07:45	09/09/22 15:39	1
Lithium	<0.010		0.010		mg/L		09/02/22 07:45	09/09/22 15:39	1

Lab Sample ID: LCS 500-672889/2-A
Matrix: Water
Analysis Batch: 673884

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0969		mg/L		97	80 - 120
Barium	0.500	0.514		mg/L		103	80 - 120
Beryllium	0.0500	0.0525		mg/L		105	80 - 120
Cadmium	0.0500	0.0489		mg/L		98	80 - 120
Calcium	10.0	10.3		mg/L		103	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120
Molybdenum	1.00	0.952		mg/L		95	80 - 120
Selenium	0.100	0.0982		mg/L		98	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: LCS 500-672889/2-A
Matrix: Water
Analysis Batch: 674091

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.100	0.106		mg/L		106	80 - 120

QC Sample Results

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

Job ID: 500-221556-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-673830/12-A
Matrix: Water
Analysis Batch: 674169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 673830

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/09/22 09:20	09/12/22 07:35	1

Lab Sample ID: LCS 500-673830/13-A
Matrix: Water
Analysis Batch: 674169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 673830

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00190		mg/L		95	80 - 120

Lab Sample ID: 500-221556-7 MS
Matrix: Water
Analysis Batch: 674169

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 673830

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 500-221556-7 MSD
Matrix: Water
Analysis Batch: 674169

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 673830

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000993		mg/L		99	75 - 125	2	20

Lab Sample ID: 500-221556-7 DU
Matrix: Water
Analysis Batch: 674169

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 673830

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

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

Lab Sample ID: MB 500-673325/1
Matrix: Water
Analysis Batch: 673325

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			09/06/22 17:40	1

Lab Sample ID: LCS 500-673325/2
Matrix: Water
Analysis Batch: 673325

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	290		mg/L		116	80 - 120

QC Sample Results

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

Job ID: 500-221556-1

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

Lab Sample ID: MB 500-673533/1
Matrix: Water
Analysis Batch: 673533

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			09/07/22 18:30	1

Lab Sample ID: LCS 500-673533/2
Matrix: Water
Analysis Batch: 673533

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	260		mg/L		104	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-672805/58
Matrix: Water
Analysis Batch: 672805

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/01/22 12:38	1

Lab Sample ID: LCS 500-672805/59
Matrix: Water
Analysis Batch: 672805

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	20.7		mg/L		104	85 - 115

Lab Sample ID: MB 500-673960/16
Matrix: Water
Analysis Batch: 673960

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/09/22 17:23	1

Lab Sample ID: LCS 500-673960/17
Matrix: Water
Analysis Batch: 673960

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	19.8		mg/L		99	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-674042/3
Matrix: Water
Analysis Batch: 674042

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			09/10/22 13:12	1

QC Sample Results

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

Job ID: 500-221556-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-674042/4
Matrix: Water
Analysis Batch: 674042

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	10.3		mg/L		103	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-672849/16
Matrix: Water
Analysis Batch: 672849

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/01/22 14:37	1

Lab Sample ID: LCS 500-672849/17
Matrix: Water
Analysis Batch: 672849

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.4		mg/L		107	88 - 123

Lab Sample ID: MB 500-673965/16
Matrix: Water
Analysis Batch: 673965

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/09/22 19:01	1

Lab Sample ID: LCS 500-673965/17
Matrix: Water
Analysis Batch: 673965

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

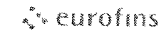
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.9		mg/L		105	88 - 123

Eurofins Chicago

241 Bond Street
 University Park IL 60484
 Phone 708-534 5200 Fax 708-534 5214

Chain of Custody Record

MKE 232



Client Information		Sampler <i>Kaelyn Sperle</i>		Lab PM Mockler Diana J		Carrier Tracking No's		COC No 500-104267-43259		
Client Contact Mitchel Dolan		Phone <i>262-278-1621</i>		E-Mail Diana.Mockler@eurofins.com		State of Origin <i>IL</i>		Page Page 1 of 1		
Company KPRG and Associates Inc		Address 14665 West Lisbon Road Suite 1A Brookfield WI 53005		Due Date Requested <i>Standard</i>		Analysis Requested		Job # <i>500-221556</i>		
Phone 262 781-0475(Te.)		FAX 500-221556 COC		TAT Requested (days) <i>Standard</i>		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes		
Project Name Poweron CCR Event Desc Quarterly Poweron CCR Sampling		Project # 50011612		PO # 4502081030		WF #		A HCL M Hexane B NaOH N None C Zn Acetate U AsNaO2 D Nitric Acid Na2O4S E NaHSO4 J Na2S J3 F MeOH R Na2S2O3 G Amchlor S H2O4 H Ascorbic Acid T TSP Dodecylhydrate I Acetone J DI Water V MCAA K EDTA W pH 4.5 L ELA Y Trizma Z Other (specify)		
Site Illinois		SSOW#		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater)	D	D	N	N	
				Preservation Code					Special Instructions/Note	
<i>1</i> MW-01		<i>8/30/22</i>	<i>0932</i>	<i>G</i>	Water	<i>NN</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>2</i> MW-08		<i>8/30/22</i>	<i>1413</i>	<i>G</i>	Water	<i>NN</i>	<i>X</i>	<i>X</i>	<i>X</i>	
MW-09					Water					
MW-11					Water					
MW-12					Water					
MW-15					Water					
<i>3</i> MW-18		<i>8/30/22</i>	<i>1520</i>	<i>G</i>	Water	<i>NN</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>4</i> MW-19		<i>8/30/22</i>	<i>1556</i>	<i>G</i>	Water	<i>NN</i>	<i>X</i>	<i>X</i>	<i>X</i>	
MW-20					Water					
<i>5</i> Duplicate		<i>8/30/22</i>	<i>-</i>	<i>G</i>	Water	<i>NN</i>	<i>X</i>	<i>X</i>	<i>X</i>	
					Water					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" 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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements					
Entry Kit Relinquished by		Date		Time		Method of Shipment				
Relinquished by <i>Kaelyn Sperle</i>		Date/Time <i>8/30/22/1645</i>		Company <i>KPRG</i>		Received by <i>FedEx</i>		Date/Time <i>8/30/22/1645</i>		Company <i>FedEx</i>
Requested by		Date/Time		Company		Received by <i>Shirley Scott</i>		Date/Time <i>8/31/22 0930</i>		Company <i>KPRG</i>
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Parameters <i>28-70, 3, 5, 3-740</i>						



Eurofins Chicago

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

Chain of Custody Record

MKE 232



Environmental Testing
America

Client Information
 Client Contact: **Kaelyn Sperle**
 Phone: **262-278-1621**
 Mitchell Dolan
 Company: **KPRG and Associates Inc.**
 Address: **14665 West Lisbon Road Suite 1A**
 City: **Brookfield**
 State Zip: **WI 53005**
 Phone: **262-781-0475(Tel)**
 Email: **mitcheld@kprginc.com**
 Project Name: **Powerton CCR Event Desc Quarterly Powerton CCR Sampling**
 Site: **Illinois**

Lab PM
 Mockler Diana J
 E-Mail: **Diana.Mockler@eurofins.com**

Carrier Tracking No(s)
500-104267-43259 1

State of Origin
IL

Page
 Page 1 of 1

Job #:
500-221556

Analysis Requested

Preservation Codes

A - HCL	M Hexane
B NaOH	N None
C - Zn Acetate	O AshaO2
D Nitric Acid	P Na2O4S
E NaHSO4	Q - Na2SO3
F MeOH	R Na2S2O3
G - Amchlor	S - H2SO4
H Ascorbic Acid	T TSP Dodecahydrate
I Ice	U - Acetone
J DI Water	V MCAA
K - EDTA	W pH 4-5
L EDA	Y Trizma
	Z other (specify)

Other:

Sample Identification

Sample ID	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)	Perform MS/MSD (Yes or No)	903.0, 904.0	8020A, 747DA	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	SM4500_SO4_E - Sulfate	Total Number of Containers	Special Instructions/Note:
				Water								
MW-08				Water								
6 MW-09	8/31/22	0903	G	Water	N	N	X	X	X	X		
7 MW-11	8/31/22	1014	G	Water	N	N	X	X	X	X		
8 MW-12	8/31/22	1125	G	Water	N	N	X	X	X	X		
9 MW-15	8/31/22	1231	G	Water	N	N	X	X	X	X		
10 MW-17	8/31/22	1404	G	Water	N	N	X	X	X	X		
				Water								
				Water								
				Water								
				Water								

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

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

Relinquished by: **Kaelyn Sperle** Date/Time: **8/31/22/1745** Company: **KPRG**
 Received by: **FedEx** Date/Time: **8/31/22/1745** Company: **FedEx**

Relinquished by: _____ Date/Time: _____ Company: _____
 Received by: **Stephanie Hernandez** Date/Time: **9/1/22 0930** Company: **EEIA**

Relinquished by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact Yes No **Custody Seal No**

Cooler Temperature(s) °C and Other Remarks
6el → 59, 22-70.9



500-221556 Waybi

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

SHIP DATE: 30AUG22
ACTWGT: 50.85 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO **EUROFINS**

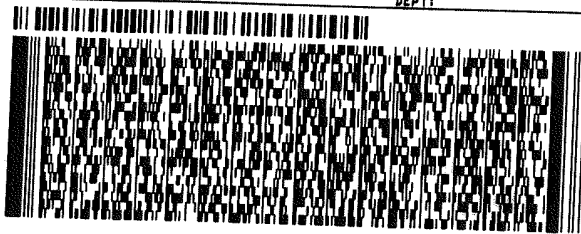
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555

REF:

DEPT:



FedEx
Express



REL#
3785346

5 of 6

MPS# 2774 0693 6126
0263

Mstr# 2774 0693 6089

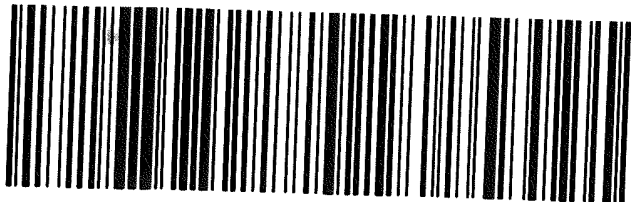
XN JOTA

WED - 31 AUG 10:30A
PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



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

SHIP DATE: 30AUG22
ACTWGT: 50.85 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN

BILL THIRD PARTY

WESTMONT, IL 60559
UNITED STATES US

ROFINS

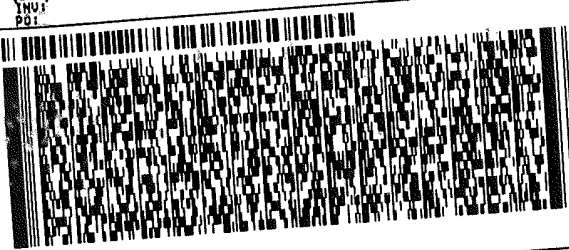
417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555

REF:

DEPT:



FedEx
Express



REL#
3785346

6 of 6

MPS# 2774 0693 6137

Mstr# 2774 0693 6089

XN JOTA

WED - 31 AUG 10:30A
PRIORITY OVERNIGHT

AHS

60484

IL-US ORD



Part # 156297-435 RRDB? EXP 04/23

Part # 156297-435 RRDB? EXP 04/23

- 1
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- 13

SHIP DATE: 31AUG22
ACTWGT: 48.00 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN
BILL THIRD PARTY

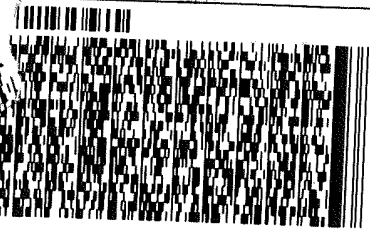
Part # 156297-433 RHDB2 EXP 04/23

AGO
AGO

PARK IL 60484

REF:

DEPT:



REL# 3785346

1 of 5

2774 5684 7044

MASTER

XN JOTA

THU - 01 SEP 10:30A
PRIORITY OVERNIGHT

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ORIGIN ID:PIAA (262) 278-1621
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 31AUG22
ACTWGT: 48.00 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN
BILL THIRD PARTY

500-221556 Waybi

Part # 156297-433 RHDB2 EXP 04/23

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 684-5200
REF:

REF:

DEPT:



REL# 3785346

3 of 5

MPS# 2774 5684 7066
0263

Metr# 2774 5684 7044

XN JOTA

THU - 01 SEP 10:30A
PRIORITY OVERNIGHT

AHS
60484
IL-US ORD



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221556-1

Login Number: 221556

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	0.3,4.0,5.9,0.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-221556-1

Client Sample ID: MW-01
Date Collected: 08/30/22 09:32
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 23:34
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 16:17
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:16
Total/NA	Analysis	SM 2540C		1	673325	SMO	EET CHI	09/06/22 17:42
Total/NA	Analysis	SM 4500 CI- E		2	672805	LP	EET CHI	09/01/22 12:40
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 13:54
Total/NA	Analysis	SM 4500 SO4 E		2	672849	LP	EET CHI	09/01/22 15:00

Client Sample ID: MW-08
Date Collected: 08/30/22 14:13
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 23:38
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 16:20
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:18
Total/NA	Analysis	SM 2540C		1	673325	SMO	EET CHI	09/06/22 17:43
Total/NA	Analysis	SM 4500 CI- E		10	672805	LP	EET CHI	09/01/22 12:40
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 13:57
Total/NA	Analysis	SM 4500 SO4 E		2	672849	LP	EET CHI	09/01/22 15:00

Client Sample ID: MW-18
Date Collected: 08/30/22 15:20
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 23:41
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 16:24
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:20
Total/NA	Analysis	SM 2540C		1	673325	SMO	EET CHI	09/06/22 17:45
Total/NA	Analysis	SM 4500 CI- E		10	672805	LP	EET CHI	09/01/22 12:41
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 13:59
Total/NA	Analysis	SM 4500 SO4 E		10	672849	LP	EET CHI	09/01/22 15:01

Lab Chronicle

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

Job ID: 500-221556-1

Client Sample ID: MW-19
Date Collected: 08/30/22 15:56
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 23:45
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 16:27
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:22
Total/NA	Analysis	SM 2540C		1	673325	SMO	EET CHI	09/06/22 17:46
Total/NA	Analysis	SM 4500 Cl- E		10	672805	LP	EET CHI	09/01/22 13:59
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:03
Total/NA	Analysis	SM 4500 SO4 E		5	672849	LP	EET CHI	09/01/22 14:44

Client Sample ID: Duplicate
Date Collected: 08/30/22 00:00
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 23:48
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		10	674091	FXG	EET CHI	09/09/22 16:31
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674440	FXG	EET CHI	09/13/22 13:08
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:24
Total/NA	Analysis	SM 2540C		1	673325	SMO	EET CHI	09/06/22 17:47
Total/NA	Analysis	SM 4500 Cl- E		10	672805	LP	EET CHI	09/01/22 12:41
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:06
Total/NA	Analysis	SM 4500 SO4 E		10	672849	LP	EET CHI	09/01/22 14:45

Client Sample ID: MW-09
Date Collected: 08/31/22 09:03
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/08/22 23:52
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		10	674091	FXG	EET CHI	09/09/22 16:34
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674440	FXG	EET CHI	09/13/22 13:12
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:26
Total/NA	Analysis	SM 2540C		1	673533	SMO	EET CHI	09/07/22 18:43
Total/NA	Analysis	SM 4500 Cl- E		2	673960	LP	EET CHI	09/09/22 17:28

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-221556-1

Client Sample ID: MW-09
Date Collected: 08/31/22 09:03
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:08
Total/NA	Analysis	SM 4500 SO4 E		10	673965	LP	EET CHI	09/09/22 19:07

Client Sample ID: MW-11
Date Collected: 08/31/22 10:14
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/09/22 00:02
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		5	674091	FXG	EET CHI	09/09/22 16:37
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674440	FXG	EET CHI	09/13/22 13:15
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:33
Total/NA	Analysis	SM 2540C		1	673533	SMO	EET CHI	09/07/22 18:44
Total/NA	Analysis	SM 4500 CI- E		10	673960	LP	EET CHI	09/09/22 17:29
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:17
Total/NA	Analysis	SM 4500 SO4 E		10	673965	LP	EET CHI	09/09/22 19:08

Client Sample ID: MW-12
Date Collected: 08/31/22 11:25
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/09/22 00:05
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674091	FXG	EET CHI	09/09/22 16:41
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:41
Total/NA	Analysis	SM 2540C		1	673533	SMO	EET CHI	09/07/22 18:46
Total/NA	Analysis	SM 4500 CI- E		10	673960	LP	EET CHI	09/09/22 17:29
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:20
Total/NA	Analysis	SM 4500 SO4 E		10	673965	LP	EET CHI	09/09/22 19:08

Client Sample ID: MW-15
Date Collected: 08/31/22 12:31
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/09/22 00:09

Lab Chronicle

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

Job ID: 500-221556-1

Client Sample ID: MW-15
Date Collected: 08/31/22 12:31
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		5	674091	FXG	EET CHI	09/09/22 16:44
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674440	FXG	EET CHI	09/13/22 13:19
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:43
Total/NA	Analysis	SM 2540C		1	673533	SMO	EET CHI	09/07/22 18:47
Total/NA	Analysis	SM 4500 Cl- E		10	673960	LP	EET CHI	09/09/22 17:29
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:22
Total/NA	Analysis	SM 4500 SO4 E		50	673965	LP	EET CHI	09/09/22 19:08

Client Sample ID: MW-17
Date Collected: 08/31/22 14:04
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	673884	FXG	EET CHI	09/09/22 00:12
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		5	674091	FXG	EET CHI	09/09/22 16:48
Total Recoverable	Prep	3005A			672889	BDE	EET CHI	09/02/22 07:45 - 09/02/22 08:15 ¹
Total Recoverable	Analysis	6020A		1	674538	FXG	EET CHI	09/13/22 19:04
Total/NA	Prep	7470A			673830	MJG	EET CHI	09/09/22 09:20 - 09/09/22 11:20 ¹
Total/NA	Analysis	7470A		1	674169	MJG	EET CHI	09/12/22 08:45
Total/NA	Analysis	SM 2540C		1	673533	SMO	EET CHI	09/07/22 18:48
Total/NA	Analysis	SM 4500 Cl- E		10	673960	LP	EET CHI	09/09/22 17:30
Total/NA	Analysis	SM 4500 F C		1	674042	EAT	EET CHI	09/10/22 14:25
Total/NA	Analysis	SM 4500 SO4 E		50	673965	LP	EET CHI	09/09/22 19:09

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

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-221556-1

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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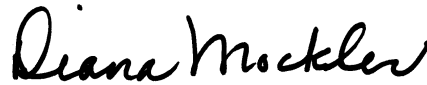
ANALYTICAL REPORT

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

Laboratory Job ID: 500-221556-2
Client Project/Site: Powerton CCR (RAD)

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

Attn: Richard Gnat



Authorized for release by:
10/5/2022 11:10:32 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 (RAD)

Job ID: 500-221556-2

Job ID: 500-221556-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-221556-2

Comments

No additional comments.

Receipt

The samples were received on 8/31/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.3° C, 0.9° C, 4.0° C and 5.9° C.

RAD

Methods 903.0, 9315: Radium-226 batch 581008

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

MW-01 (500-221556-1), MW-08 (500-221556-2), MW-18 (500-221556-3), MW-19 (500-221556-4), Duplicate (500-221556-5), MW-09 (500-221556-6), MW-11 (500-221556-7), MW-12 (500-221556-8), MW-15 (500-221556-9), MW-17 (500-221556-10), (LCS 160-581008/2-A), (MB 160-581008/1-A) and (500-221556-E-1-A DU)

Methods 904.0, 9320: Radium-228 batch 582886

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

MW-01 (500-221556-1), MW-08 (500-221556-2), MW-18 (500-221556-3), MW-19 (500-221556-4), Duplicate (500-221556-5), MW-09 (500-221556-6), MW-11 (500-221556-7), MW-12 (500-221556-8), MW-15 (500-221556-9), MW-17 (500-221556-10), (LCS 160-582886/2-A), (MB 160-582886/1-A) and (500-221556-E-2-A DU)

Method PrecSep_0:

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 (RAD)

Job ID: 500-221556-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-221556-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221556-1	MW-01	Water	08/30/22 09:32	08/31/22 09:30
500-221556-2	MW-08	Water	08/30/22 14:13	08/31/22 09:30
500-221556-3	MW-18	Water	08/30/22 15:20	08/31/22 09:30
500-221556-4	MW-19	Water	08/30/22 15:56	08/31/22 09:30
500-221556-5	Duplicate	Water	08/30/22 00:00	08/31/22 09:30
500-221556-6	MW-09	Water	08/31/22 09:03	09/01/22 09:30
500-221556-7	MW-11	Water	08/31/22 10:14	09/01/22 09:30
500-221556-8	MW-12	Water	08/31/22 11:25	09/01/22 09:30
500-221556-9	MW-15	Water	08/31/22 12:31	09/01/22 09:30
500-221556-10	MW-17	Water	08/31/22 14:04	09/01/22 09:30

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- 10
- 11
- 12
- 13
- 14

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-01

Lab Sample ID: 500-221556-1

Date Collected: 08/30/22 09:32

Matrix: Water

Date Received: 08/31/22 09:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0340	U	0.0579	0.0580	1.00	0.102	pCi/L	09/06/22 15:03	09/28/22 14:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		40 - 110					09/06/22 15:03	09/28/22 14:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.594		0.346	0.350	1.00	0.498	pCi/L	09/20/22 15:24	09/30/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		40 - 110					09/20/22 15:24	09/30/22 12:04	1
Y Carrier	84.9		40 - 110					09/20/22 15:24	09/30/22 12:04	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	0.628		0.351	0.355	5.00	0.498	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-08
Date Collected: 08/30/22 14:13
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-2
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	0.150		0.0788	0.0800	1.00	0.0930	pCi/L	09/06/22 15:03	09/28/22 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.1		40 - 110					09/06/22 15:03	09/28/22 14:44	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	0.709		0.363	0.369	1.00	0.505	pCi/L	09/20/22 15:24	09/30/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					09/20/22 15:24	09/30/22 12:04	1
Y Carrier	85.6		40 - 110					09/20/22 15:24	09/30/22 12:04	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	0.859		0.371	0.378	5.00	0.505	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-18

Lab Sample ID: 500-221556-3

Date Collected: 08/30/22 15:20

Matrix: Water

Date Received: 08/31/22 09:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.173		0.0865	0.0879	1.00	0.0959	pCi/L	09/06/22 15:03	09/28/22 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					09/06/22 15:03	09/28/22 14:44	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	0.472	U	0.329	0.332	1.00	0.491	pCi/L	09/20/22 15:24	09/30/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		40 - 110					09/20/22 15:24	09/30/22 12:04	1
Y Carrier	85.6		40 - 110					09/20/22 15:24	09/30/22 12:04	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	0.645		0.340	0.343	5.00	0.491	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-19
Date Collected: 08/30/22 15:56
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-4
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	0.253		0.101	0.104	1.00	0.109	pCi/L	09/06/22 15:03	09/28/22 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					09/06/22 15:03	09/28/22 14:44	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	0.187	U	0.259	0.260	1.00	0.436	pCi/L	09/20/22 15:24	09/30/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					09/20/22 15:24	09/30/22 12:04	1
Y Carrier	87.5		40 - 110					09/20/22 15:24	09/30/22 12:04	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	0.440		0.278	0.280	5.00	0.436	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: Duplicate
Date Collected: 08/30/22 00:00
Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-5
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0526	U	0.0583	0.0585	1.00	0.0932	pCi/L	09/06/22 15:03	09/28/22 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.0		40 - 110					09/06/22 15:03	09/28/22 14:44	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	0.678		0.339	0.345	1.00	0.465	pCi/L	09/20/22 15:24	09/30/22 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/20/22 15:24	09/30/22 12:08	1
Y Carrier	87.5		40 - 110					09/20/22 15:24	09/30/22 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	0.731		0.344	0.350	5.00	0.465	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-09

Lab Sample ID: 500-221556-6

Date Collected: 08/31/22 09:03

Matrix: Water

Date Received: 09/01/22 09:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00325	U	0.0452	0.0452	1.00	0.101	pCi/L	09/06/22 15:03	09/28/22 14:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					09/06/22 15:03	09/28/22 14:44	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	0.139	U	0.263	0.263	1.00	0.458	pCi/L	09/20/22 15:24	09/30/22 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		40 - 110					09/20/22 15:24	09/30/22 12:08	1
Y Carrier	86.7		40 - 110					09/20/22 15:24	09/30/22 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	0.136	U	0.267	0.267	5.00	0.458	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-11

Lab Sample ID: 500-221556-7

Date Collected: 08/31/22 10:14

Matrix: Water

Date Received: 09/01/22 09:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.286		0.103	0.106	1.00	0.101	pCi/L	09/06/22 15:03	09/28/22 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		40 - 110					09/06/22 15:03	09/28/22 17:04	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	0.751		0.371	0.378	1.00	0.511	pCi/L	09/20/22 15:24	09/30/22 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.9		40 - 110					09/20/22 15:24	09/30/22 12:08	1
Y Carrier	86.4		40 - 110					09/20/22 15:24	09/30/22 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	1.04		0.385	0.393	5.00	0.511	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-12
Date Collected: 08/31/22 11:25
Date Received: 09/01/22 09:30

Lab Sample ID: 500-221556-8
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	0.386		0.117	0.122	1.00	0.102	pCi/L	09/06/22 15:03	09/28/22 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		40 - 110					09/06/22 15:03	09/28/22 17:04	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	0.232	U	0.337	0.338	1.00	0.569	pCi/L	09/20/22 15:24	09/30/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.5		40 - 110					09/20/22 15:24	09/30/22 12:09	1
Y Carrier	86.4		40 - 110					09/20/22 15:24	09/30/22 12:09	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	0.618		0.357	0.359	5.00	0.569	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-15

Lab Sample ID: 500-221556-9

Date Collected: 08/31/22 12:31

Matrix: Water

Date Received: 09/01/22 09:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0868	U	0.0682	0.0686	1.00	0.0982	pCi/L	09/06/22 15:03	09/28/22 17:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.3		40 - 110					09/06/22 15:03	09/28/22 17:04	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	0.284	U	0.334	0.335	1.00	0.550	pCi/L	09/20/22 15:24	09/30/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					09/20/22 15:24	09/30/22 12:09	1
Y Carrier	86.7		40 - 110					09/20/22 15:24	09/30/22 12:09	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	0.371	U	0.341	0.342	5.00	0.550	pCi/L		10/03/22 13:21	1

Client Sample Results

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

Job ID: 500-221556-2

Client Sample ID: MW-17

Lab Sample ID: 500-221556-10

Date Collected: 08/31/22 14:04

Matrix: Water

Date Received: 09/01/22 09:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0193	U	0.0492	0.0492	1.00	0.0925	pCi/L	09/06/22 15:03	09/28/22 17:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		40 - 110					09/06/22 15:03	09/28/22 17:05	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	0.172	U	0.309	0.309	1.00	0.533	pCi/L	09/20/22 15:24	09/30/22 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					09/20/22 15:24	09/30/22 12:09	1
Y Carrier	87.9		40 - 110					09/20/22 15:24	09/30/22 12:09	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	0.191	U	0.313	0.313	5.00	0.533	pCi/L		10/03/22 13:21	1

Definitions/Glossary

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

Job ID: 500-221556-2

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 (RAD)

Job ID: 500-221556-2

Rad

Prep Batch: 581008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total/NA	Water	PrecSep-21	
500-221556-2	MW-08	Total/NA	Water	PrecSep-21	
500-221556-3	MW-18	Total/NA	Water	PrecSep-21	
500-221556-4	MW-19	Total/NA	Water	PrecSep-21	
500-221556-5	Duplicate	Total/NA	Water	PrecSep-21	
500-221556-6	MW-09	Total/NA	Water	PrecSep-21	
500-221556-7	MW-11	Total/NA	Water	PrecSep-21	
500-221556-8	MW-12	Total/NA	Water	PrecSep-21	
500-221556-9	MW-15	Total/NA	Water	PrecSep-21	
500-221556-10	MW-17	Total/NA	Water	PrecSep-21	
MB 160-581008/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-581008/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-221556-1 DU	MW-01	Total/NA	Water	PrecSep-21	

Prep Batch: 582886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221556-1	MW-01	Total/NA	Water	PrecSep_0	
500-221556-2	MW-08	Total/NA	Water	PrecSep_0	
500-221556-3	MW-18	Total/NA	Water	PrecSep_0	
500-221556-4	MW-19	Total/NA	Water	PrecSep_0	
500-221556-5	Duplicate	Total/NA	Water	PrecSep_0	
500-221556-6	MW-09	Total/NA	Water	PrecSep_0	
500-221556-7	MW-11	Total/NA	Water	PrecSep_0	
500-221556-8	MW-12	Total/NA	Water	PrecSep_0	
500-221556-9	MW-15	Total/NA	Water	PrecSep_0	
500-221556-10	MW-17	Total/NA	Water	PrecSep_0	
MB 160-582886/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-582886/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-221556-2 DU	MW-08	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-221556-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-581008/1-A
Matrix: Water
Analysis Batch: 583796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 581008

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02655	U	0.0369	0.0370	1.00	0.0964	pCi/L	09/06/22 15:03	09/28/22 14:43	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	99.0		40 - 110			09/06/22 15:03	09/28/22 14:43	1		

Lab Sample ID: LCS 160-581008/2-A
Matrix: Water
Analysis Batch: 583796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 581008

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.855		1.03	1.00	0.0904	pCi/L	87	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	98.0		40 - 110						

Lab Sample ID: 500-221556-1 DU
Matrix: Water
Analysis Batch: 583796

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 581008

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0340	U	0.06580	U	0.0615	1.00	0.0913	pCi/L	0.27	1
Carrier	DU %Yield	DU Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	88.9		40 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-582886/1-A
Matrix: Water
Analysis Batch: 584234

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582886

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4739	U	0.321	0.324	1.00	0.476	pCi/L	09/20/22 15:24	09/30/22 12:03	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	88.0		40 - 110			09/20/22 15:24	09/30/22 12:03	1		
Y Carrier	86.4		40 - 110			09/20/22 15:24	09/30/22 12:03	1		

QC Sample Results

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

Job ID: 500-221556-2

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

Lab Sample ID: LCS 160-582886/2-A
Matrix: Water
Analysis Batch: 584234

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582886

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits																									
Radium-228	8.24	9.668		1.32	1.00	0.545	pCi/L	117	75 - 125																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th>LCS</th> <th>LCS</th> <th colspan="2"></th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>83.0</td> <td></td> <td>40 - 110</td> <td colspan="2"></td> </tr> <tr> <td>Y Carrier</td> <td>86.4</td> <td></td> <td>40 - 110</td> <td colspan="2"></td> </tr> </tbody> </table>													LCS	LCS			Carrier	%Yield	Qualifier	Limits			Ba Carrier	83.0		40 - 110			Y Carrier	86.4		40 - 110		
		LCS	LCS																															
Carrier	%Yield	Qualifier	Limits																															
Ba Carrier	83.0		40 - 110																															
Y Carrier	86.4		40 - 110																															

Lab Sample ID: 500-221556-2 DU
Matrix: Water
Analysis Batch: 584234

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 582886

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit																								
Radium-228	0.709		0.7090		0.335	1.00	0.440	pCi/L	0	1																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th>DU</th> <th>DU</th> <th colspan="2"></th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>98.0</td> <td></td> <td>40 - 110</td> <td colspan="2"></td> </tr> <tr> <td>Y Carrier</td> <td>85.6</td> <td></td> <td>40 - 110</td> <td colspan="2"></td> </tr> </tbody> </table>													DU	DU			Carrier	%Yield	Qualifier	Limits			Ba Carrier	98.0		40 - 110			Y Carrier	85.6		40 - 110		
		DU	DU																															
Carrier	%Yield	Qualifier	Limits																															
Ba Carrier	98.0		40 - 110																															
Y Carrier	85.6		40 - 110																															

Eurofins Chicago


241 Bond Street
 University Park IL 60484
 Phone 708-534 5200 Fax 708-534 5214

Chain of Custody Record

MKE 232

eurofins

Client Information		Sampler <i>Kaelyn Sperle</i>		Lab PM Mockler Diana J		Carrier Tracking No's		COC No 500-104267-43259	
Client Contact Mitchel Dolan		Phone <i>262-278-1621</i>		E-Mail Diana.Mockler@eurofins.com		State of Origin <i>IL</i>		Page Page 1 of 1	
Company KPRG and Associates Inc		Address 14665 West Lisbon Road Suite 1A Brookfield WI 53005		Due Date Requested <i>Standard</i>		Analysis Requested		Job # <i>500-221556</i>	
City Brookfield		State Zip WI 53005		TAT Requested (days) <i>Standard</i>		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes	
Phone 262 781-0475(Te.)		FAX 500-221556 COC		PO # 4502081030		WF #		A HCL M Hexane B NaOH N None C Zn Acetate U AsNaO2 D Nitric Acid Na2O4S E NaHSO4 J Na2S J3 F MeOH R Na2S2O3 G Amchlor S H2O4 H Ascorbin Acid T TSP Dodecahydrate I Acetone J DI Water V MCAA K EDTA W pH 4.5 L ELA Y Trizma Z Other (specify)	
Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project # 50011612		SSOW#		Field Filtered Sample (Yes or No)		Total Number of Containers	
Site Illinois		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=wastewater)	
								Special Instructions/Note	
MW-01		8/30/22		0932		G		Water	
MW 08		8/30/22		1413		G		Water	
MW 09								Water	
MW 14								Water	
MW 16								Water	
MW 15								Water	
3 MW 18		8/30/22		1520		G		Water	
4 MW 19		8/30/22		1556		G		Water	
5 Duplicate		8/30/22		-		G		Water	
								Water	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" 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 checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements				
Entry Kit Relinquished by		Date		Time		Method of Shipment			
Relinquished by <i>Kaelyn Sperle</i>		Date/Time 8/30/22/1645		Company KPRG		Received by <i>Shirley Scott</i>		Date/Time 8/30/22/1645	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Relinquished by		Date/Time		Company		Received by		Date/Time	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Parameters <i>28-70, 3, 5, 3-740</i>					

Client Information		Sampler 262 Kaelyn Sperle	Lab PM Mockler Diana J	Carrier Tracking No(s) 	COC No. 500-104267-43259 1					
Client Contact Mitchel Dolan		Phone 262-278-1621	E-Mail Diana.Mockler@et.eurofins.com	State of Origin IL	Page Page 1 of 1					
Company KPRG and Associates Inc.			PWS/D	Analysis Requested		Job # 500-221556				
Address 14665 West Lisbon Road Suite 1A		Due Date Requested Standard	<div style="display: flex; justify-content: space-around;">  <p>500-221556 COC</p> </div>				Preservation Codes			
City Brookfield		TAT Requested (days) standard					Preservation Codes			
State Zip WI 53005		Compliance Project <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					A - HCL B NaOH C - Zn Acetate D Nitric Acid E NaHSO4 F MeOH G - Amchlor H Ascorbic Acid I Ice J DI Water K - EDTA L EDA		M Hexane N None O Ash/aO2 P Na2O4S Q - Na2SO3 R Na2S2O3 S - H2SO4 T TSP Dodecahydrate U - Acetone V MCAA W pH 4-5 Y Trizma Z other (specify)	
Phone 262-781-0475(Tel)		PO # 4502081030					Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Other:	
Email mitcheld@kprginc.com		WO #					903.0, 904.0 8020A, 747DA 2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E SM4500_SO4_E - Sulfate		Total Number of Containers	
Project Name Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project # 50011612								
Site Illinois		SSOW#								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Preservation Code				
MW-08										
MW-09										
6 MW-09		8/31/22	0903	G	Water	D D N N				
7 MW 11		8/31/22	1014	G	Water	N X X X X				
8 MW-12		8/31/22	1125	G	Water	N X X X X				
9 MW-15		8/31/22	1231	G	Water	N X X X X				
10 MW-17		8/31/22	1404	G	Water	N X X X X				
MW-18										
MW-19										
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
<input checked="" 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				
Del verable Requested I II III IV Other (specify)		Special Instructions/QC Requirements								
Empty Kit Relinquished by		Date	Time	Method of Shipment						
Relinquished by <i>Kaelyn Sperle</i>		Date/Time 8/31/22/1745	Company KPRG	Received by FedEx	Date/Time 8/31/22/1745	Company FedEx				
Relinquished by		Date/Time	Company	Received by Stephanie Hernandez	Date/Time 9/1/22 0930	Company EEIA				
Relinquished by		Date/Time	Company	Received by	Date/Time	Company				
Custody Seals Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No	Cooler Temperature(s) °C and Other Remarks 6el → 59, 22 → 09							



500-221556 Waybi

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

SHIP DATE: 30AUG22
ACTWGT: 50.85 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO **EUROFINS**

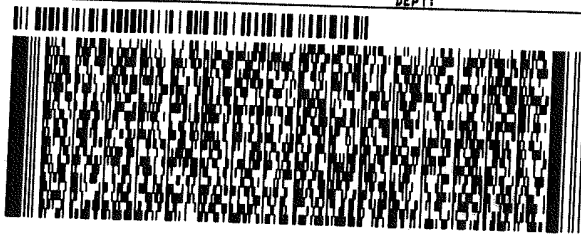
2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666

REF:

DEPT:



FedEx
Express



REL#
3785346

5 of 6

MPS# 2774 0693 6126
0263

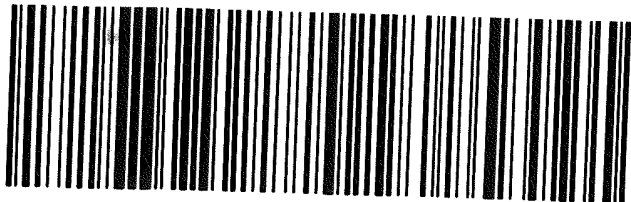
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XN JOTA

WED - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484

0201

IL-US ORD



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

SHIP DATE: 30AUG22
ACTWGT: 50.85 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN

BILL THIRD PARTY

WESTMONT, IL 60559
UNITED STATES US

ROFINS

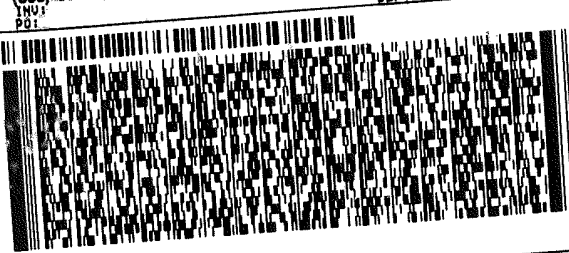
417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666

REF:

DEPT:



FedEx
Express



REL#
3785346

6 of 6

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0263

Mstr# 2774 0693 6089

XN JOTA

0201

WED - 31 AUG 10:30A
PRIORITY OVERNIGHT
AHS
60484

IL-US ORD



Part # 156297-435 RRDB? EXP 04/23

Part # 156297-435 RRDB? EXP 04/23

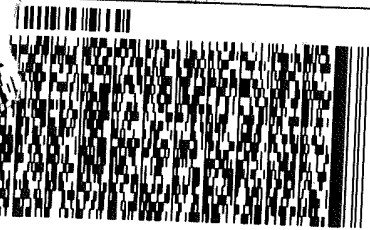
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ACTWGT: 48.00 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN
BILL THIRD PARTY

Part # 156297-433 RHDB2 EXP 04/23

AGO
AGO

PARK IL 60484

REF: DEPT:



REL# 3785346

1 of 5

2774 5684 7044

MASTER

XN JOTA

THU - 01 SEP 10:30A
PRIORITY OVERNIGHT

AHS
60484
IL-US ORD



ORIGIN ID:PIAA (262) 278-1621
KAEVYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 31AUG22
ACTWGT: 48.00 LB
CAD: 6994780/SSFE2322
DIMS: 24x13x13 IN
BILL THIRD PARTY

500-221556 Waybi

Part # 156297-433 RHDB2 EXP 04/23

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 684-5200 REF: DEPT:



REL# 3785346

3 of 5

MPS# 2774 5684 7066
0263

Metr# 2774 5684 7044

XN JOTA

THU - 01 SEP 10:30A
PRIORITY OVERNIGHT

AHS
60484
IL-US ORD



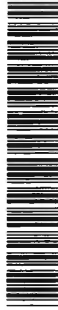
Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-164793.1									
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-221556-2									
Address: 13715 Rider Trail North,		Due Date Requested: 9/21/2022											
City: Earth City		TAT Requested (days):											
State, Zip: MO, 63045		PO #:											
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:											
Email:		Project #: 50011612											
Project Name: Powerton CCR (RAD)		SSOW#:											
Site: MWG - Powerton													
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sealed, Onwater/oil, B1=issue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/Precep_21 Standard Target List	904.0/Precep_0 Standard Target List	Ra226Ra228 GPPC	Analysis Requested	Total Number of Containers	Special Instructions/Note:
MW-01 (500-221556-1)	8/30/22	09:32 Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-08 (500-221556-2)	8/30/22	14:13 Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-18 (500-221556-3)	8/30/22	15:20 Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-19 (500-221556-4)	8/30/22	15:56 Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
Duplicate (500-221556-5)	8/30/22	Central		Water		X	X	X	X			3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested: I, II, III, IV, Other (Specify) Primary Deliverable Rank: 2													
Empty Kit Relinquished by:													
Relinquished by: <i>[Signature]</i> Date: 8/31/22													
Relinquished by: <i>[Signature]</i> Date/Time: 1415													
Relinquished by: <i>[Signature]</i> Date/Time: FED EX													
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No													
Custody Seal No.:													
Cooler Temperature(s) °C and Other Remarks:													
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:													
Method of Shipment: _____ Date/Time: _____ Date/Time: FED EX Date/Time: SEP 01 2022 08:25 Date/Time: _____ Date/Time: _____ Company: _____ Company: RAJTC Company: _____													



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-164823.1
Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		State of Origin: Illinois	Job #: 500-221556-1
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Due Date Requested: 9/21/2022		Analysis Requested	
TAI Requested (days):		Total Number of Containers	
PO #:	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	
WO #:	Matrix (Wetness, Swabbed, On-surface, Bacteria, A-AW)	Preservation Code:	
Project #: 50011612	Sample Type (C=comp, G=grab)	Sample Code:	
SSOW#:	Sample Time	Sample Date	
Site: MWG - Powerton	Sample Time	Sample Date	
Sample Identification - Client ID (Lab ID)	Sample Time	Sample Date	
MW-09 (500-221556-6)	09:03 Central	8/31/22	
MW-11 (500-221556-7)	10:14 Central	8/31/22	
MW-12 (500-221556-8)	11:25 Central	8/31/22	
MW-15 (500-221556-9)	12:31 Central	8/31/22	
MW-17 (500-221556-10)	14:04 Central	8/31/22	
Special Instructions/Note:		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Patricia Buckley* Date/Time: 9/1/22 1600 Company: *ETA*
 Relinquished by: **FED EX** Date/Time: _____ Company: _____
 Relinquished by: *Autumn R. Johnson* Date/Time: _____ Company: _____
 Custody Seal No.: _____ Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

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

Method of Shipment: _____ Date/Time: _____
 Received by: **FED EX** Date/Time: _____ Company: _____
 Received by: *Autumn R. Johnson* Date/Time: SEP 02 2022 0920 Date/Time: _____ Company: _____



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221556-2

Login Number: 221556

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	0.3,4.0,5.9,0.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221556-2

Login Number: 221556

List Number: 2

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 09/01/22 10:59 AM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221556-2

Login Number: 221556

List Number: 3

Creator: Booker, Autumn R

List Source: Eurofins St. Louis

List Creation: 09/02/22 11:54 AM

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

Lab Chronicle

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

Job ID: 500-221556-2

Client Sample ID: MW-01

Date Collected: 08/30/22 09:32

Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 14:43
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584234	FLC	EET SL	09/30/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Client Sample ID: MW-08

Date Collected: 08/30/22 14:13

Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 14:44
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584234	FLC	EET SL	09/30/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Client Sample ID: MW-18

Date Collected: 08/30/22 15:20

Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 14:44
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584234	FLC	EET SL	09/30/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Client Sample ID: MW-19

Date Collected: 08/30/22 15:56

Date Received: 08/31/22 09:30

Lab Sample ID: 500-221556-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 14:44
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584234	FLC	EET SL	09/30/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Lab Chronicle

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

Job ID: 500-221556-2

Client Sample ID: Duplicate

Lab Sample ID: 500-221556-5

Date Collected: 08/30/22 00:00

Matrix: Water

Date Received: 08/31/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 14:44
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:08
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Client Sample ID: MW-09

Lab Sample ID: 500-221556-6

Date Collected: 08/31/22 09:03

Matrix: Water

Date Received: 09/01/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 14:44
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:08
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Client Sample ID: MW-11

Lab Sample ID: 500-221556-7

Date Collected: 08/31/22 10:14

Matrix: Water

Date Received: 09/01/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:04
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:08
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Client Sample ID: MW-12

Lab Sample ID: 500-221556-8

Date Collected: 08/31/22 11:25

Matrix: Water

Date Received: 09/01/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:04
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:09
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Lab Chronicle

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

Job ID: 500-221556-2

Client Sample ID: MW-15

Lab Sample ID: 500-221556-9

Date Collected: 08/31/22 12:31

Matrix: Water

Date Received: 09/01/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:04
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:09
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Client Sample ID: MW-17

Lab Sample ID: 500-221556-10

Date Collected: 08/31/22 14:04

Matrix: Water

Date Received: 09/01/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			581008	TJ	EET SL	09/06/22 15:03
Total/NA	Analysis	903.0		1	583796	CLP	EET SL	09/28/22 17:05
Total/NA	Prep	PrecSep_0			582886	MLK	EET SL	09/20/22 15:24
Total/NA	Analysis	904.0		1	584224	FLC	EET SL	09/30/22 12:09
Total/NA	Analysis	Ra226_Ra228		1	584450	CAH	EET SL	10/03/22 13:21

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-221556-2

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 (RAD)

Job ID: 500-221556-2

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)
500-221556-1	MW-01	92.6
500-221556-1 DU	MW-01	88.9
500-221556-2	MW-08	93.1
500-221556-3	MW-18	84.2
500-221556-4	MW-19	95.3
500-221556-5	Duplicate	97.0
500-221556-6	MW-09	83.7
500-221556-7	MW-11	93.8
500-221556-8	MW-12	92.3
500-221556-9	MW-15	95.3
500-221556-10	MW-17	94.6
LCS 160-581008/2-A	Lab Control Sample	98.0
MB 160-581008/1-A	Method Blank	99.0

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-221556-1	MW-01	91.9	84.9
500-221556-2	MW-08	88.9	85.6
500-221556-2 DU	MW-08	98.0	85.6
500-221556-3	MW-18	85.5	85.6
500-221556-4	MW-19	89.2	87.5
500-221556-5	Duplicate	94.6	87.5
500-221556-6	MW-09	91.6	86.7
500-221556-7	MW-11	90.9	86.4
500-221556-8	MW-12	86.5	86.4
500-221556-9	MW-15	88.9	86.7
500-221556-10	MW-17	82.1	87.9
LCS 160-582886/2-A	Lab Control Sample	83.0	86.4
MB 160-582886/1-A	Method Blank	88.0	86.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	8/30/21
Sample Name	MW-Ø1	Start Time	0920	
Condition of Well	good			
Water Level	27.61	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	4 gts	WL at Sample Time	27.62	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA, FAB CCR, ABBASB CCR	Sample Time	0932	
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)
0922	27.61	7.15	19.1	.784	8.25	157.3	4.16
0925	—	7.10	18.9	.885	7.10	161.8	4.61
0928	—	7.11	18.9	.883	3.27	162.6	5.13
0931	27.62	7.10	18.8	.885	3.08	163.0	4.73

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/30/22
Sample Name	MW-08	Start Time	1402	
Condition of Well	good			
Water Level	25.69	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	4.5 gts	WL at Sample Time	25.69	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA, ABB/ASB CCR	Sample Time	1413	
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)
1403	25.69	7.22	16.8	1.424	7.18	161.5	6.05
1406	-	7.31	15.6	1.572	1.63	-53.4	9.81
1409	-	7.36	15.2	1.567	0.97	-121.8	10.19
1412	25.69	7.37	15.1	1.561	0.69	-150.6	9.75

SAMPLING NOTES:

ABB/ASB CCR Duplicate

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/31/22
Sample Name	MW-09	Start Time	0850	
Condition of Well	good			
Water Level	26.64	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	3 gts	WL at Sample Time	26.64	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA, ABB/ASB ccr	Sample Time	0903	
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)
0853	26.64	7.63	14.1	.880	5.26	103.8	4.34
0856	-	7.34	15.2	.887	1.75	101.3	5.61
0859	-	7.22	13.9	.885	1.04	111.2	5.54
0902	26.64	7.18	13.8	.888	0.78	113.2	4.95

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/31/72
Sample Name	MW-11	Start Time	1002	
Condition of Well	good			
Water Level	32.02	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	cloudy, brown	
Volume Removed	4.5 gts	WL at Sample Time	32.02	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	CCA, ABB/ASB CCR	Sample Time	1014	
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)
1004	32.02	7.24	18.6	1.136	7.15	117.2	67.15
1007	-	6.94	17.1	1.490	1.90	35.3	150.72
1010	-	6.96	16.8	1.449	1.00	-38.1	371.75
1013	32.02	6.97	16.9	1.414	0.70	-71.9	66.80

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	8/31/22
Sample Name	MW-12	Start Time	1113	
Condition of Well	good			
Water Level	23.85	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	cloudy, orange	
Volume Removed	4.5 gts	WL at Sample Time	23.85	
Method of Sample	Low-Flow	Sample Characteristics	orange, slightly cloudy	
Sample Analysis	CCA, ABB/ASB CCR	Sample Time	1125	
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)
1115	23.85	7.69	18.7	1.476	6.77	109.2	105.71
1118	-	7.43	15.7	1.393	2.08	95.6	932.18
1121	-	7.39	14.8	1.406	1.14	92.2	1832.47
1124	23.85	7.33	15.2	1.426	0.81	82.0	703.10

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/31/22
Sample Name	MW-15	Start Time	1220	
Condition of Well	good			
Water Level	25.44	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	cloudy, brown	
Volume Removed	4 gts	WL at Sample Time	25.44	
Method of Sample	Low-Flow	Sample Characteristics	sl. cloudy	
Sample Analysis	CCA, MCB + ABB/ASB CCR	Sample Time	1231	
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)
1221	25.44	7.05	17.7	3.376	7.37	131.5	16.90
1224	-	6.84	16.9	2.700	2.34	114.7	255.14
1227	-	6.81	16.5	2.667	1.13	82.8	73.76
1230	25.44	6.80	16.4	2.669	0.83	50.1	28.70

SAMPLING NOTES:

MCB duplicate

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/31/22
Sample Name	MW-17	Start Time	1353	
Condition of Well	good			
Water Level	25.95	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	sl. cloudy	
Volume Removed	4 gts	WL at Sample Time	25.95	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	MCB & ABB/ASB CCR	Sample Time	1404	
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)
1355	25.95	7.25	17.8	2.503	5.82	137.7	73.56
1358	-	7.12	16.5	1.834	4.18	136.4	95.00
1401	-	7.10	16.1	1.809	4.83	136.7	34.38
1403	25.95	7.12	16.0	1.812	5.25	136.7	22.58

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

ALS

PROJECT NAME	NRG – POWERTON STATION (12313.1)		DATE	8/30/22
Sample Name	MW-18	Start Time	1508	
Condition of Well	Good			
Water Level	30.10	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	clear to sl. gray	
Volume Removed	3 gts	WL at Sample Time	33.10	
Method of Sample	Low-Flow	Sample Characteristics	gray ↑ w/ each bottle	
Sample Analysis	ABB/ASB CCR	Sample Time	1520	
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)
1510	30.10	7.83	22.5	1.742	5.37	127.7	3.86
1513	-	7.75	16.4	1.795	1.89	107.9	9.69
1516	-	7.80	16.0	1.800	0.94	68.3	5.60
1519	33.10	7.82	16.3	1.798	0.63	15.0	5.66

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION (12313.1)		DATE	8/30/22
Sample Name	MW-19	Start Time	1544	
Condition of Well	good			
Water Level	25.07	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low-Flow	Purge Characteristics	clear	
Volume Removed	4.5 gts	WL at Sample Time	25.07	
Method of Sample	Low-Flow	Sample Characteristics	clear	
Sample Analysis	ABB/ASB CCR	Sample Time	1556	
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	25.07	7.52	16.5	.954	6.13	106.2	2.62
1549	-	7.39	14.8	.886	1.68	104.2	3.15
1552	-	7.32	14.4	.888	0.94	102.2	2.87
1555	25.07	7.29	14.3	.891	0.73	100.5	3.56

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS