

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed through the 3rd quarter 2021 (July 20, 2021 sampling) which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

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

Well	Date	Turbidity (NTU)
MW-15	2/24/2021	64.9
	4/9/2021	16.8
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
MW-17	2/24/2021	42.0
	4/8/2021	17.1
	5/12/2021	10.9
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
MW-14	2/24/2021	13.9
	4/8/2021	5.39
	5/12/2021	1.22
	6/3/2021	2.63
	6/28/2021	3.74
	7/20/2021	4.34
	8/23/2021	4.26
MW-20	3/12/2021	343.3
	4/8/2021	14.45
	5/12/2021	3.89
	6/3/2021	6.01
	6/28/2021	8.28
	7/20/2021	9.16
	8/23/2021	27.31
MW-21	3/12/2021	49.2
	4/8/2021	5.88
	5/12/2021	26.09
	6/3/2021	17.61
	6/28/2021	6.33
	7/20/2021	44.93
	8/23/2021	19.43

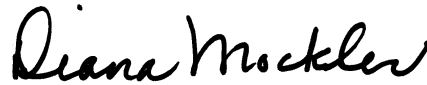
ANALYTICAL REPORT

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

Laboratory Job ID: 500-202648-1
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:
8/9/2021 10:29:31 AM

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

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

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



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Case Narrative

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

Job ID: 500-202648-1

Job ID: 500-202648-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

**Job Narrative
500-202648-1**

Comments

No additional comments.

Receipt

The samples were received on 7/21/2021 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.8° C and 5.9° C.

Metals

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

General Chemistry

Method SM 4500 Cl- E: Due to the high concentration of chloride, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 500-613109 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (500-202648-B-1 MS) and (500-202648-B-1 MSD)

Method SM 4500 SO4 E: Due to the high concentration of sulfate, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 500-613117 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (500-202648-B-1 MS) and (500-202648-B-1 MSD)

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



Method Summary

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

Job ID: 500-202648-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-202648-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-202648-1	MW-15	Water	07/20/21 11:43	07/21/21 14:05
500-202648-2	MW-14	Water	07/20/21 10:51	07/21/21 14:05
500-202648-3	MW-17	Water	07/20/21 12:21	07/21/21 14:05
500-202648-4	MW-20	Water	07/20/21 10:11	07/21/21 14:05
500-202648-5	MW-21	Water	07/20/21 09:30	07/21/21 14:05
500-202648-6	Duplicate	Water	07/20/21 00:00	07/21/21 14:05

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

Client Sample Results

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

Job ID: 500-202648-1

Client Sample ID: MW-15
Date Collected: 07/20/21 11:43
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.028		0.010		mg/L		07/22/21 08:34	07/22/21 19:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:34	07/22/21 19:15	1
Arsenic	0.0027		0.0010		mg/L		07/26/21 08:31	07/26/21 18:25	1
Barium	0.057		0.0025		mg/L		07/22/21 08:34	07/22/21 19:15	1
Beryllium	<0.0010		0.0010		mg/L		07/22/21 08:34	07/22/21 19:15	1
Boron	1.5		0.25		mg/L		07/26/21 08:31	07/27/21 12:21	5
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:15	1
Calcium	190		0.20		mg/L		07/22/21 08:34	07/22/21 19:15	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 19:15	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:34	07/22/21 19:15	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:15	1
Molybdenum	0.020		0.0050		mg/L		07/22/21 08:34	07/22/21 19:15	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:34	07/22/21 19:15	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:34	07/22/21 19:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/22/21 10:00	07/23/21 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			07/22/21 04:55	1
Chloride	180		10		mg/L			08/06/21 12:20	5
Fluoride	0.49		0.10		mg/L			08/04/21 13:44	1
Sulfate	440		100		mg/L			08/06/21 11:41	20

Client Sample ID: MW-14
Date Collected: 07/20/21 10:51
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.027		0.010		mg/L		07/22/21 08:34	07/22/21 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:34	07/22/21 19:26	1
Arsenic	0.0025		0.0010		mg/L		07/26/21 08:31	07/26/21 18:29	1
Barium	0.057		0.0025		mg/L		07/22/21 08:34	07/22/21 19:26	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:31	07/26/21 18:29	1
Boron	2.0		0.25		mg/L		07/26/21 08:31	07/27/21 12:25	5
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:26	1
Calcium	190		0.20		mg/L		07/22/21 08:34	07/22/21 19:26	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 19:26	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:34	07/22/21 19:26	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:26	1
Molybdenum	0.021		0.0050		mg/L		07/22/21 08:34	07/22/21 19:26	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:34	07/22/21 19:26	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-202648-1

Client Sample ID: MW-14
Date Collected: 07/20/21 10:51
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:34	07/22/21 19:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/22/21 10:00	07/23/21 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			07/22/21 04:58	1
Chloride	81		10		mg/L			08/06/21 12:21	5
Fluoride	0.89		0.10		mg/L			08/04/21 13:52	1
Sulfate	500		100		mg/L			08/06/21 11:44	20

Client Sample ID: MW-17
Date Collected: 07/20/21 12:21
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.029		0.010		mg/L		07/22/21 08:34	07/22/21 19:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:34	07/22/21 19:29	1
Arsenic	0.0074		0.0010		mg/L		07/26/21 08:31	07/26/21 18:32	1
Barium	0.035		0.0025		mg/L		07/22/21 08:34	07/22/21 19:29	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:31	07/26/21 18:32	1
Boron	0.94		0.050		mg/L		07/26/21 08:31	07/27/21 12:28	1
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:29	1
Calcium	180		0.20		mg/L		07/22/21 08:34	07/22/21 19:29	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 19:29	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:34	07/22/21 19:29	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:29	1
Molybdenum	0.028		0.0050		mg/L		07/22/21 08:34	07/22/21 19:29	1
Selenium	0.051		0.0025		mg/L		07/22/21 08:34	07/22/21 19:29	1
Thallium	0.0031		0.0020		mg/L		07/22/21 08:34	07/22/21 19:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/22/21 10:00	07/23/21 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			07/22/21 05:00	1
Chloride	150		10		mg/L			08/06/21 12:21	5
Fluoride	0.67		0.10		mg/L			08/04/21 13:55	1
Sulfate	450		100		mg/L			08/06/21 11:45	20

Client Sample Results

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

Job ID: 500-202648-1

Client Sample ID: MW-20

Lab Sample ID: 500-202648-4

Date Collected: 07/20/21 10:11

Matrix: Water

Date Received: 07/21/21 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/22/21 08:34	07/22/21 19:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:34	07/22/21 19:32	1
Arsenic	0.0025		0.0010		mg/L		07/26/21 08:31	07/26/21 18:36	1
Barium	0.10		0.0025		mg/L		07/22/21 08:34	07/22/21 19:32	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:31	07/26/21 18:36	1
Boron	1.5		0.25		mg/L		07/26/21 08:31	07/27/21 12:32	5
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:32	1
Calcium	230		0.20		mg/L		07/22/21 08:34	07/22/21 19:32	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 19:32	1
Cobalt	0.0022		0.0010		mg/L		07/22/21 08:34	07/22/21 19:32	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:32	1
Molybdenum	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 19:32	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:34	07/22/21 19:32	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:34	07/22/21 19:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/22/21 10:00	07/23/21 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			07/22/21 05:03	1
Chloride	64		10		mg/L			08/06/21 12:22	5
Fluoride	0.13		0.10		mg/L			08/04/21 13:59	1
Sulfate	440		100		mg/L			08/06/21 11:45	20

Client Sample ID: MW-21

Lab Sample ID: 500-202648-5

Date Collected: 07/20/21 09:30

Matrix: Water

Date Received: 07/21/21 14:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/22/21 08:34	07/22/21 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:34	07/22/21 19:36	1
Arsenic	0.017		0.0010		mg/L		07/26/21 08:31	07/26/21 18:39	1
Barium	0.35		0.0025		mg/L		07/22/21 08:34	07/22/21 19:36	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:31	07/26/21 18:39	1
Boron	0.38		0.050		mg/L		07/26/21 08:31	07/27/21 12:35	1
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:36	1
Calcium	130		0.20		mg/L		07/22/21 08:34	07/22/21 19:36	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 19:36	1
Cobalt	0.0083		0.0010		mg/L		07/22/21 08:34	07/22/21 19:36	1
Lead	0.0010		0.00050		mg/L		07/22/21 08:34	07/22/21 19:36	1
Molybdenum	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 19:36	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:34	07/22/21 19:36	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-202648-1

Client Sample ID: MW-21

Date Collected: 07/20/21 09:30

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:34	07/22/21 19:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/22/21 10:00	07/23/21 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	650		10		mg/L			07/22/21 05:05	1
Chloride	28		2.0		mg/L			08/06/21 12:13	1
Fluoride	0.15		0.10		mg/L			08/04/21 14:02	1
Sulfate	32		5.0		mg/L			08/06/21 11:31	1

Client Sample ID: Duplicate

Date Collected: 07/20/21 00:00

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.029		0.010		mg/L		07/22/21 08:34	07/22/21 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:34	07/22/21 19:39	1
Arsenic	0.0029		0.0010		mg/L		07/26/21 08:31	07/26/21 18:43	1
Barium	0.036		0.0025		mg/L		07/22/21 08:34	07/22/21 19:39	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:31	07/26/21 18:43	1
Boron	2.1		0.25		mg/L		07/26/21 08:31	07/27/21 12:39	5
Cadmium	0.00051		0.00050		mg/L		07/22/21 08:34	07/22/21 19:39	1
Calcium	190		0.20		mg/L		07/22/21 08:34	07/22/21 19:39	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 19:39	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:34	07/22/21 19:39	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 19:39	1
Molybdenum	0.029		0.0050		mg/L		07/22/21 08:34	07/22/21 19:39	1
Selenium	0.053		0.0025		mg/L		07/22/21 08:34	07/22/21 19:39	1
Thallium	0.0033		0.0020		mg/L		07/22/21 08:34	07/22/21 19:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/22/21 10:00	07/23/21 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			07/22/21 05:08	1
Chloride	81		10		mg/L			08/06/21 12:23	5
Fluoride	0.88		0.10		mg/L			08/04/21 14:05	1
Sulfate	510		100		mg/L			08/06/21 11:45	20

Definitions/Glossary

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

Job ID: 500-202648-1

Qualifiers

General Chemistry

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

Glossary

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

QC Association Summary

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

Job ID: 500-202648-1

Metals

Prep Batch: 610616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total Recoverable	Water	3005A	
500-202648-2	MW-14	Total Recoverable	Water	3005A	
500-202648-3	MW-17	Total Recoverable	Water	3005A	
500-202648-4	MW-20	Total Recoverable	Water	3005A	
500-202648-5	MW-21	Total Recoverable	Water	3005A	
500-202648-6	Duplicate	Total Recoverable	Water	3005A	
MB 500-610616/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-610616/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 610643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total/NA	Water	7470A	
500-202648-2	MW-14	Total/NA	Water	7470A	
500-202648-3	MW-17	Total/NA	Water	7470A	
500-202648-4	MW-20	Total/NA	Water	7470A	
500-202648-5	MW-21	Total/NA	Water	7470A	
500-202648-6	Duplicate	Total/NA	Water	7470A	
MB 500-610643/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-610643/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-202648-1 MS	MW-15	Total/NA	Water	7470A	
500-202648-1 MSD	MW-15	Total/NA	Water	7470A	
500-202648-1 DU	MW-15	Total/NA	Water	7470A	

Analysis Batch: 610799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total Recoverable	Water	6010C	610616
500-202648-2	MW-14	Total Recoverable	Water	6010C	610616
500-202648-3	MW-17	Total Recoverable	Water	6010C	610616
500-202648-4	MW-20	Total Recoverable	Water	6010C	610616
500-202648-5	MW-21	Total Recoverable	Water	6010C	610616
500-202648-6	Duplicate	Total Recoverable	Water	6010C	610616
MB 500-610616/1-A	Method Blank	Total Recoverable	Water	6010C	610616
LCS 500-610616/2-A	Lab Control Sample	Total Recoverable	Water	6010C	610616

Analysis Batch: 610853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total Recoverable	Water	6020A	610616
500-202648-2	MW-14	Total Recoverable	Water	6020A	610616
500-202648-3	MW-17	Total Recoverable	Water	6020A	610616
500-202648-4	MW-20	Total Recoverable	Water	6020A	610616
500-202648-5	MW-21	Total Recoverable	Water	6020A	610616
500-202648-6	Duplicate	Total Recoverable	Water	6020A	610616
MB 500-610616/1-A	Method Blank	Total Recoverable	Water	6020A	610616
LCS 500-610616/2-A	Lab Control Sample	Total Recoverable	Water	6020A	610616

Analysis Batch: 610858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total/NA	Water	7470A	610643
500-202648-2	MW-14	Total/NA	Water	7470A	610643
500-202648-3	MW-17	Total/NA	Water	7470A	610643
500-202648-4	MW-20	Total/NA	Water	7470A	610643

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QC Association Summary

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

Job ID: 500-202648-1

Metals (Continued)

Analysis Batch: 610858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-5	MW-21	Total/NA	Water	7470A	610643
500-202648-6	Duplicate	Total/NA	Water	7470A	610643
MB 500-610643/12-A	Method Blank	Total/NA	Water	7470A	610643
LCS 500-610643/13-A	Lab Control Sample	Total/NA	Water	7470A	610643
500-202648-1 MS	MW-15	Total/NA	Water	7470A	610643
500-202648-1 MSD	MW-15	Total/NA	Water	7470A	610643
500-202648-1 DU	MW-15	Total/NA	Water	7470A	610643

Prep Batch: 611044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total Recoverable	Water	3005A	
500-202648-2	MW-14	Total Recoverable	Water	3005A	
500-202648-3	MW-17	Total Recoverable	Water	3005A	
500-202648-4	MW-20	Total Recoverable	Water	3005A	
500-202648-5	MW-21	Total Recoverable	Water	3005A	
500-202648-6	Duplicate	Total Recoverable	Water	3005A	
MB 500-611044/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-611044/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 611296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total Recoverable	Water	6020A	611044
500-202648-2	MW-14	Total Recoverable	Water	6020A	611044
500-202648-3	MW-17	Total Recoverable	Water	6020A	611044
500-202648-4	MW-20	Total Recoverable	Water	6020A	611044
500-202648-5	MW-21	Total Recoverable	Water	6020A	611044
500-202648-6	Duplicate	Total Recoverable	Water	6020A	611044
MB 500-611044/1-A	Method Blank	Total Recoverable	Water	6020A	611044
LCS 500-611044/2-A	Lab Control Sample	Total Recoverable	Water	6020A	611044

Analysis Batch: 611336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total Recoverable	Water	6020A	611044
500-202648-2	MW-14	Total Recoverable	Water	6020A	611044
500-202648-3	MW-17	Total Recoverable	Water	6020A	611044
500-202648-4	MW-20	Total Recoverable	Water	6020A	611044
500-202648-5	MW-21	Total Recoverable	Water	6020A	611044
500-202648-6	Duplicate	Total Recoverable	Water	6020A	611044
MB 500-611044/1-A	Method Blank	Total Recoverable	Water	6020A	611044
LCS 500-611044/2-A	Lab Control Sample	Total Recoverable	Water	6020A	611044

General Chemistry

Analysis Batch: 610535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total/NA	Water	SM 2540C	
500-202648-2	MW-14	Total/NA	Water	SM 2540C	
500-202648-3	MW-17	Total/NA	Water	SM 2540C	
500-202648-4	MW-20	Total/NA	Water	SM 2540C	
500-202648-5	MW-21	Total/NA	Water	SM 2540C	
500-202648-6	Duplicate	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-202648-1

General Chemistry (Continued)

Analysis Batch: 610535 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-610535/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-610535/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 612679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total/NA	Water	SM 4500 F C	
500-202648-2	MW-14	Total/NA	Water	SM 4500 F C	
500-202648-3	MW-17	Total/NA	Water	SM 4500 F C	
500-202648-4	MW-20	Total/NA	Water	SM 4500 F C	
500-202648-5	MW-21	Total/NA	Water	SM 4500 F C	
500-202648-6	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-612679/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-612679/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-202648-1 MS	MW-15	Total/NA	Water	SM 4500 F C	
500-202648-1 MSD	MW-15	Total/NA	Water	SM 4500 F C	

Analysis Batch: 613109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-202648-2	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-202648-3	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-202648-4	MW-20	Total/NA	Water	SM 4500 Cl- E	
500-202648-5	MW-21	Total/NA	Water	SM 4500 Cl- E	
500-202648-6	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-613109/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-613109/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-202648-1 MS	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-202648-1 MSD	MW-15	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 613117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-202648-2	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-202648-3	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-202648-4	MW-20	Total/NA	Water	SM 4500 SO4 E	
500-202648-5	MW-21	Total/NA	Water	SM 4500 SO4 E	
500-202648-6	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-613117/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-613117/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-202648-1 MS	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-202648-1 MSD	MW-15	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-202648-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-610616/1-A
Matrix: Water
Analysis Batch: 610799

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 610616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/22/21 08:34	07/22/21 19:15	1

Lab Sample ID: LCS 500-610616/2-A
Matrix: Water
Analysis Batch: 610799

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 610616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.552		mg/L		110	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-610616/1-A
Matrix: Water
Analysis Batch: 610853

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 610616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:34	07/22/21 18:44	1
Barium	<0.0025		0.0025		mg/L		07/22/21 08:34	07/22/21 18:44	1
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 18:44	1
Calcium	<0.20		0.20		mg/L		07/22/21 08:34	07/22/21 18:44	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 18:44	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:34	07/22/21 18:44	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:34	07/22/21 18:44	1
Molybdenum	<0.0050		0.0050		mg/L		07/22/21 08:34	07/22/21 18:44	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:34	07/22/21 18:44	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:34	07/22/21 18:44	1

Lab Sample ID: LCS 500-610616/2-A
Matrix: Water
Analysis Batch: 610853

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 610616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.508		mg/L		102	80 - 120
Barium	2.00	2.04		mg/L		102	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	10.0	9.99		mg/L		100	80 - 120
Chromium	0.200	0.205		mg/L		102	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Molybdenum	1.00	0.972		mg/L		97	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

Lab Sample ID: MB 500-611044/1-A
Matrix: Water
Analysis Batch: 611296

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 611044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		07/26/21 08:31	07/26/21 17:44	1

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QC Sample Results

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

Job ID: 500-202648-1

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

Lab Sample ID: MB 500-611044/1-A
Matrix: Water
Analysis Batch: 611336

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 611044

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		07/26/21 08:31	07/27/21 12:07	1

Lab Sample ID: LCS 500-611044/2-A
Matrix: Water
Analysis Batch: 611296

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 611044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0972		mg/L		97	80 - 120

Lab Sample ID: LCS 500-611044/2-A
Matrix: Water
Analysis Batch: 611336

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 611044

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.893		mg/L		89	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-610643/12-A
Matrix: Water
Analysis Batch: 610858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 610643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/22/21 10:00	07/23/21 07:44	1

Lab Sample ID: LCS 500-610643/13-A
Matrix: Water
Analysis Batch: 610858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 610643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: 500-202648-1 MS
Matrix: Water
Analysis Batch: 610858

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 610643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000925		mg/L		93	75 - 125

Lab Sample ID: 500-202648-1 MSD
Matrix: Water
Analysis Batch: 610858

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 610643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000901		mg/L		90	75 - 125	3	20

QC Sample Results

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

Job ID: 500-202648-1

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

Lab Sample ID: 500-202648-1 DU
Matrix: Water
Analysis Batch: 610858

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 610643

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

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

Lab Sample ID: MB 500-610535/1
Matrix: Water
Analysis Batch: 610535

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			07/22/21 04:27	1

Lab Sample ID: LCS 500-610535/2
Matrix: Water
Analysis Batch: 610535

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

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-613109/16
Matrix: Water
Analysis Batch: 613109

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			08/06/21 12:11	1

Lab Sample ID: LCS 500-613109/17
Matrix: Water
Analysis Batch: 613109

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	19.9		mg/L		99	85 - 115

Lab Sample ID: 500-202648-1 MS
Matrix: Water
Analysis Batch: 613109

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	180		20.0	195	4	mg/L		62	75 - 125

Lab Sample ID: 500-202648-1 MSD
Matrix: Water
Analysis Batch: 613109

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	180		20.0	196	4	mg/L		68	75 - 125	1	20

QC Sample Results

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

Job ID: 500-202648-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-612679/3
Matrix: Water
Analysis Batch: 612679

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			08/04/21 13:39	1

Lab Sample ID: LCS 500-612679/4
Matrix: Water
Analysis Batch: 612679

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	80 - 120

Lab Sample ID: 500-202648-1 MS
Matrix: Water
Analysis Batch: 612679

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.49		5.00	5.61		mg/L		102	75 - 125

Lab Sample ID: 500-202648-1 MSD
Matrix: Water
Analysis Batch: 612679

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.49		5.00	5.58		mg/L		102	75 - 125	1	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-613117/15
Matrix: Water
Analysis Batch: 613117

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			08/06/21 11:26	1

Lab Sample ID: LCS 500-613117/16
Matrix: Water
Analysis Batch: 613117

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	19.4		mg/L		97	80 - 120

Lab Sample ID: 500-202648-1 MS
Matrix: Water
Analysis Batch: 613117

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	440		20.0	428	4	mg/L		-41	75 - 125

QC Sample Results

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

Job ID: 500-202648-1

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

Lab Sample ID: 500-202648-1 MSD
Matrix: Water
Analysis Batch: 613117

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	440		20.0	436	4	mg/L		-0.2	75 - 125	2	20

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Chain of Custody Record

Client Information		Sampler <i>Mitchel Dolan</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No 500-93241-41505 1			
Client Contact: Mitchel Dolan		Phone: <i>262-622-1143</i>		E-Mail Diana Mockler@Eurofinset.com		State of Origin <i>FL</i>		Page Page 1 of 1			
Company KPRG and Associates Inc		PWSID		Analysis Requested						Job # <i>500-202648</i>	
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Perform MS/MSD (Yes or No) 2540C, 4500 F.C., SM4500_C1_E, SM4500_H+, SM4500_S04_E 903.0 - Radium 226 904.0 - Radium 228 Ra226Ra228, GFPC - Rad Combined 6010C, 6020A, 7470A		Total Number of containers		Preservation Codes			
City Brookfield		TAT Requested (days)						A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)			
State Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						Other			
Phone 262-781-0475(Tel)		PO # 4502051132									
Email mitcheld@kprginc.com		WO #		Project # 50018578		SSOW#:		Special Instructions/Note			
Project Name Powerton CCR MCB		Project #		SSOW#:		SSOW#:					
Site <i>Powerton Generating Station</i>		SSOW#:		SSOW#:		SSOW#:					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Total Number of containers		Special Instructions/Note	
						Preservation Code					
1	MW 15	7/20/21	1143	G	Water	X	X	X	X		
2	MW-14	7/20/21	1051	G	Water	X	X	X	X		
3	MW 17	7/20/21	1221	G	Water	X	X	X	X		
4	MW-20	7/20/21	1011	G	Water	X	X	X	X		
5	MW 21	7/20/21	0930	G	Water	X	X	X	X		
6	Duplicate	7/20/21	-	G	Water	X	X	X	X		
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements <i>Full App III + IV parameters</i>					
Empty Kit Relinquished by			Date		Time		Method of Shipment:				
Relinquished by <i>Mitchel Dolan MADD</i>			Date/Time <i>7/20/21 / 1400</i>		Company <i>KPRG</i>		Received by <i>FEDEX</i>		Date/Time <i>7/20/21 / 1400</i>		Company <i>FEDEX</i>
Relinquished by			Date/Time		Company		Received by <i>Shirley Scott</i>		Date/Time <i>7/21/21 1405</i>		Company <i>ETA OIL</i>
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		<i>59.58</i>					



FZ

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 20JUL21
ACTWGT: 50.00 LB
CAD: 6994779/SSFE2202
DIMS: 24x18x12 IN

BILL THIRD PARTY

TO EUROFINS TESTAMERICA
ATTN: SAMPLE RECEIVING - J
2417 BOND ST

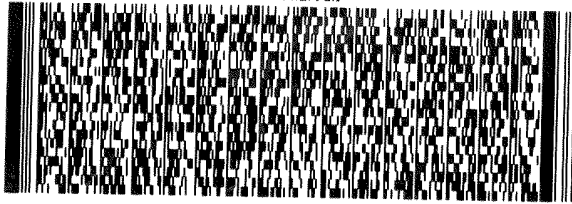


UNIVERSITY PARK IL 60484 500-202648 Wayt

(000) 000-0000
INU:
PO:

REF:

DEPT:



FedEx
Express



J212021070801W

1 of 2

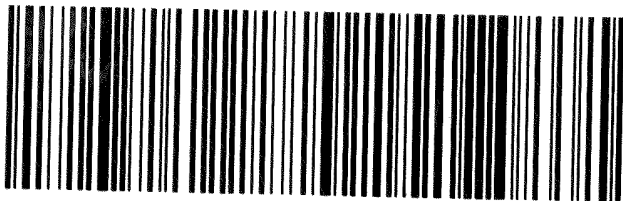
TRK# 2816 5948 8772
0201

MASTER

UF JOTA

WED - 21 JUL 4:30P
STANDARD OVERNIGHT

60484
IL-US ORD



ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 20JUL21
ACTWGT: 52.30 LB
CAD: 6994779/SSFE2202
DIMS: 24x18x12 IN

BILL THIRD PARTY

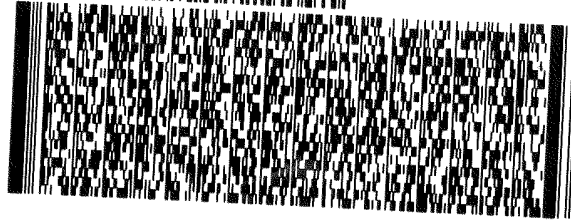
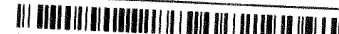
TO EUROFINS TESTAMERICA
ATTN: SAMPLE RECEIVING - JIM KNAPP
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000
INU:
PO:

REF:

DEPT:



FedEx
Express



M 1065020120212F

2 of 2

MPS# 2816 5948 8783
0263

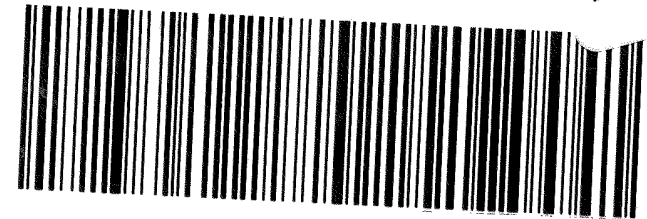
Mstr# 2816 5948 8772

UF JOTA

WED - 21 JUL 4:30P
STANDARD OVERNIGHT

0201

IL RT 651
FZ



Part # 156295-436-3075940-2105 03/22

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-202648-1

Login Number: 202648

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-202648-1

Client Sample ID: MW-15
Date Collected: 07/20/21 11:43
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 19:23	EEN	TAL CHI
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 19:15	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 18:25	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	611336	07/27/21 12:21	FXG	TAL CHI
Total/NA	Prep	7470A			610643	07/22/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	610858	07/23/21 07:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	610535	07/22/21 04:55	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	613109	08/06/21 12:20	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	612679	08/04/21 13:44	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:41	MS	TAL CHI

Client Sample ID: MW-14
Date Collected: 07/20/21 10:51
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 19:26	EEN	TAL CHI
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 19:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 18:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	611336	07/27/21 12:25	FXG	TAL CHI
Total/NA	Prep	7470A			610643	07/22/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	610858	07/23/21 08:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	610535	07/22/21 04:58	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	613109	08/06/21 12:21	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	612679	08/04/21 13:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:44	MS	TAL CHI

Client Sample ID: MW-17
Date Collected: 07/20/21 12:21
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 19:30	EEN	TAL CHI
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 19:29	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-202648-1

Client Sample ID: MW-17
Date Collected: 07/20/21 12:21
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 18:32	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611336	07/27/21 12:28	FXG	TAL CHI
Total/NA	Prep	7470A			610643	07/22/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	610858	07/23/21 08:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	610535	07/22/21 05:00	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	613109	08/06/21 12:21	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	612679	08/04/21 13:55	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:45	MS	TAL CHI

Client Sample ID: MW-20
Date Collected: 07/20/21 10:11
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 19:34	EEN	TAL CHI
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 19:32	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 18:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	611336	07/27/21 12:32	FXG	TAL CHI
Total/NA	Prep	7470A			610643	07/22/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	610858	07/23/21 08:22	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	610535	07/22/21 05:03	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	613109	08/06/21 12:22	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	612679	08/04/21 13:59	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:45	MS	TAL CHI

Client Sample ID: MW-21
Date Collected: 07/20/21 09:30
Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 19:37	EEN	TAL CHI
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 19:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 18:39	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611336	07/27/21 12:35	FXG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-202648-1

Client Sample ID: MW-21

Date Collected: 07/20/21 09:30

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			610643	07/22/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	610858	07/23/21 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	610535	07/22/21 05:05	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	613109	08/06/21 12:13	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	612679	08/04/21 14:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	613117	08/06/21 11:31	MS	TAL CHI

Client Sample ID: Duplicate

Date Collected: 07/20/21 00:00

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 19:41	EEN	TAL CHI
Total Recoverable	Prep	3005A			610616	07/22/21 08:34	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 19:39	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 18:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			611044	07/26/21 08:31	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	611336	07/27/21 12:39	FXG	TAL CHI
Total/NA	Prep	7470A			610643	07/22/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	610858	07/23/21 08:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	610535	07/22/21 05:08	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	613109	08/06/21 12:23	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	612679	08/04/21 14:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:45	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-202648-1

Laboratory: Eurofins TestAmerica, Chicago

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

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-202648-2
Client Project/Site: Powerton CCR MCB

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

Attn: Richard Gnat



Authorized for release by:
8/24/2021 8:03:27 AM

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

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

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

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Case Narrative

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

Job ID: 500-202648-2

Job ID: 500-202648-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-202648-2

Comments

No additional comments.

Receipt

The samples were received on 7/21/2021 2:05 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.8° C and 5.9° C.

RAD

Method 903.0: Radium-226 prep batch 160-520330:

The Ra-226 laboratory control sample (LCS) associated with the following samples recovered at 68%. MW-15 (500-202648-1), MW-14 (500-202648-2), MW-17 (500-202648-3), MW-20 (500-202648-4), MW-21 (500-202648-5), Duplicate (500-202648-6), (LCS 160-520330/1-A), (MB 160-520330/23-A) and (500-202648-D-1-A DU). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (67-18%) per method requirements. The LCS is within criteria and no further action is required.

Method 903.0: Radium-226 prep batch 160-520330:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-15 (500-202648-1), MW-14 (500-202648-2), MW-17 (500-202648-3), MW-20 (500-202648-4), MW-21 (500-202648-5), Duplicate (500-202648-6), (LCS 160-520330/1-A), (MB 160-520330/23-A) and (500-202648-D-1-A DU)

Method 904.0: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative.

Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-15 (500-202648-1), MW-14 (500-202648-2), MW-17 (500-202648-3), MW-20 (500-202648-4), MW-21 (500-202648-5), Duplicate (500-202648-6), (LCS 160-520353/1-A), (MB 160-520353/23-A) and (500-202648-D-1-B DU)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

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

Job ID: 500-202648-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-202648-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-202648-1	MW-15	Water	07/20/21 11:43	07/21/21 14:05
500-202648-2	MW-14	Water	07/20/21 10:51	07/21/21 14:05
500-202648-3	MW-17	Water	07/20/21 12:21	07/21/21 14:05
500-202648-4	MW-20	Water	07/20/21 10:11	07/21/21 14:05
500-202648-5	MW-21	Water	07/20/21 09:30	07/21/21 14:05
500-202648-6	Duplicate	Water	07/20/21 00:00	07/21/21 14:05

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

Client Sample Results

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

Job ID: 500-202648-2

Client Sample ID: MW-15

Date Collected: 07/20/21 11:43

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-1

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.121	U	0.0784	0.0788	1.00	0.121	pCi/L	07/27/21 11:06	08/18/21 12:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					07/27/21 11:06	08/18/21 12:31	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	<0.398	U	0.246	0.247	1.00	0.398	pCi/L	07/27/21 13:02	08/02/21 12:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					07/27/21 13:02	08/02/21 12:52	1
Y Carrier	86.6		40 - 110					07/27/21 13:02	08/02/21 12:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.398	U	0.258	0.259	5.00	0.398	pCi/L		08/23/21 17:25	1

Client Sample ID: MW-14

Date Collected: 07/20/21 10:51

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-2

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	0.157		0.101	0.102	1.00	0.145	pCi/L	07/27/21 11:06	08/18/21 12:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					07/27/21 11:06	08/18/21 12:33	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	<0.434	U	0.244	0.244	1.00	0.434	pCi/L	07/27/21 13:02	08/02/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					07/27/21 13:02	08/02/21 12:53	1
Y Carrier	89.6		40 - 110					07/27/21 13:02	08/02/21 12:53	1

Client Sample Results

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

Job ID: 500-202648-2

Client Sample ID: MW-14

Date Collected: 07/20/21 10:51

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-2

Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.434	U	0.264	0.264	5.00	0.434	pCi/L		08/23/21 17:25	1

Client Sample ID: MW-17

Date Collected: 07/20/21 12:21

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-3

Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.125	U	0.0741	0.0743	1.00	0.125	pCi/L	07/27/21 11:06	08/18/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					07/27/21 11:06	08/18/21 12:37	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	<0.431	U	0.246	0.246	1.00	0.431	pCi/L	07/27/21 13:02	08/02/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					07/27/21 13:02	08/02/21 12:53	1
Y Carrier	88.7		40 - 110					07/27/21 13:02	08/02/21 12:53	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	<0.431	U	0.257	0.257	5.00	0.431	pCi/L		08/23/21 17:25	1

Client Sample ID: MW-20

Date Collected: 07/20/21 10:11

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-4

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	0.187		0.0957	0.0972	1.00	0.123	pCi/L	07/27/21 11:06	08/18/21 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					07/27/21 11:06	08/18/21 12:37	1

Client Sample Results

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

Job ID: 500-202648-2

Client Sample ID: MW-20

Lab Sample ID: 500-202648-4

Date Collected: 07/20/21 10:11

Matrix: Water

Date Received: 07/21/21 14:05

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.484	U	0.264	0.264	1.00	0.484	pCi/L	07/27/21 13:02	08/02/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					07/27/21 13:02	08/02/21 12:53	1
Y Carrier	89.9		40 - 110					07/27/21 13:02	08/02/21 12:53	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	<0.484	U	0.281	0.281	5.00	0.484	pCi/L		08/23/21 17:25	1

Client Sample ID: MW-21

Lab Sample ID: 500-202648-5

Date Collected: 07/20/21 09:30

Matrix: Water

Date Received: 07/21/21 14:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.691		0.199	0.209	1.00	0.202	pCi/L	07/27/21 11:06	08/18/21 13:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.9		40 - 110					07/27/21 11:06	08/18/21 13:56	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	<0.705	U	0.420	0.421	1.00	0.705	pCi/L	07/27/21 13:02	08/02/21 12:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.9		40 - 110					07/27/21 13:02	08/02/21 12:51	1
Y Carrier	85.1		40 - 110					07/27/21 13:02	08/02/21 12:51	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	0.970		0.465	0.470	5.00	0.705	pCi/L		08/23/21 17:25	1

Client Sample Results

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

Job ID: 500-202648-2

Client Sample ID: Duplicate

Lab Sample ID: 500-202648-6

Date Collected: 07/20/21 00:00

Matrix: Water

Date Received: 07/21/21 14:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.196		0.0972	0.0988	1.00	0.125	pCi/L	07/27/21 11:06	08/18/21 13:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					07/27/21 11:06	08/18/21 13:58	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.461	U	0.298	0.301	1.00	0.461	pCi/L	07/27/21 13:02	08/02/21 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.7		40 - 110					07/27/21 13:02	08/02/21 13:46	1
Y Carrier	86.3		40 - 110					07/27/21 13:02	08/02/21 13:46	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	0.651		0.313	0.317	5.00	0.461	pCi/L		08/23/21 17:25	1

Definitions/Glossary

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

Job ID: 500-202648-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-202648-2

Rad

Prep Batch: 520330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total/NA	Water	PrecSep-21	
500-202648-2	MW-14	Total/NA	Water	PrecSep-21	
500-202648-3	MW-17	Total/NA	Water	PrecSep-21	
500-202648-4	MW-20	Total/NA	Water	PrecSep-21	
500-202648-5	MW-21	Total/NA	Water	PrecSep-21	
500-202648-6	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-520330/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-520330/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-202648-1 DU	MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 520353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202648-1	MW-15	Total/NA	Water	PrecSep_0	
500-202648-2	MW-14	Total/NA	Water	PrecSep_0	
500-202648-3	MW-17	Total/NA	Water	PrecSep_0	
500-202648-4	MW-20	Total/NA	Water	PrecSep_0	
500-202648-5	MW-21	Total/NA	Water	PrecSep_0	
500-202648-6	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-520353/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-520353/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-202648-1 DU	MW-15	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-202648-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-520330/23-A
Matrix: Water
Analysis Batch: 523169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 520330

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.216	U	0.114	0.114	1.00	0.216	pCi/L	07/27/21 11:06	08/18/21 14:14	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	50.0		40 - 110			07/27/21 11:06	08/18/21 14:14	1		

Lab Sample ID: LCS 160-520330/1-A
Matrix: Water
Analysis Batch: 523214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520330

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	7.656		0.866	1.00	0.169	pCi/L	68	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	66.4		40 - 110						

Lab Sample ID: 500-202648-1 DU
Matrix: Water
Analysis Batch: 523169

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 520330

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	<0.121	U	0.1580		0.0949	1.00	0.131	pCi/L	0.41	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	93.0		40 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-520353/23-A
Matrix: Water
Analysis Batch: 520877

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 520353

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.883	U	0.505	0.505	1.00	0.883	pCi/L	07/27/21 13:02	08/02/21 13:51	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	50.0		40 - 110			07/27/21 13:02	08/02/21 13:51	1		
Y Carrier	91.7		40 - 110			07/27/21 13:02	08/02/21 13:51	1		

QC Sample Results

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

Job ID: 500-202648-2

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

Lab Sample ID: LCS 160-520353/1-A
Matrix: Water
Analysis Batch: 520877

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 520353

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits																	
Radium-228	9.47	7.205		0.971	1.00	0.465	pCi/L	76	75 - 125																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">LCS</th> <th colspan="2">LCS</th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>66.4</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>90.8</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>											LCS		LCS		Carrier	%Yield	Qualifier	Limits	Ba Carrier	66.4		40 - 110	Y Carrier	90.8		40 - 110
LCS		LCS																								
Carrier	%Yield	Qualifier	Limits																							
Ba Carrier	66.4		40 - 110																							
Y Carrier	90.8		40 - 110																							

Lab Sample ID: 500-202648-1 DU
Matrix: Water
Analysis Batch: 520877

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 520353

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit																
Radium-228	<0.398	U	<0.372	U	0.229	1.00	0.372	pCi/L	0.08	1																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">DU</th> <th colspan="2">DU</th> </tr> <tr> <th>Carrier</th> <th>%Yield</th> <th>Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>93.0</td> <td></td> <td>40 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>89.6</td> <td></td> <td>40 - 110</td> </tr> </tbody> </table>											DU		DU		Carrier	%Yield	Qualifier	Limits	Ba Carrier	93.0		40 - 110	Y Carrier	89.6		40 - 110
DU		DU																								
Carrier	%Yield	Qualifier	Limits																							
Ba Carrier	93.0		40 - 110																							
Y Carrier	89.6		40 - 110																							

Chain of Custody Record

Client Information		Sampler <i>Mitchel Dolan</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No 500-93241-41505 1																									
Client Contact: Mitchel Dolan		Phone: <i>262-622-1143</i>	E-Mail Diana Mockler@Eurofinset.com	State of Origin <i>FL</i>	Page Page 1 of 1																									
Company KPRG and Associates Inc		PWSID	Analysis Requested																											
Address 14665 West Lisbon Road Suite 1A		Due Date Requested	<table border="1"> <tr> <td>Perform MS/MSD (Yes or No)</td> <td>2540C, 4500 F.C., SM4500_C1_E, SM4500_H+, SM4500_S04_E</td> <td>903.0 - Radium 226</td> <td>904.0 - Radium 228</td> <td>Ra226Ra228, GFPC - Rad Combined</td> <td>6010C, 6020A, 7470A</td> </tr> </table>			Perform MS/MSD (Yes or No)	2540C, 4500 F.C., SM4500_C1_E, SM4500_H+, SM4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228, GFPC - Rad Combined	6010C, 6020A, 7470A																			
Perform MS/MSD (Yes or No)	2540C, 4500 F.C., SM4500_C1_E, SM4500_H+, SM4500_S04_E	903.0 - Radium 226				904.0 - Radium 228	Ra226Ra228, GFPC - Rad Combined	6010C, 6020A, 7470A																						
City Brookfield		TAT Requested (days)																												
State Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																												
Phone 262-781-0475(Tel)		PO # 4502051132																												
Email mitcheld@kprginc.com		WO #																												
Project Name Powerton CCR MCB		Project # 50018578																												
Site <i>Powerton Generating Station</i>		SSOW#:	Job # <i>500-202648</i>																											
<table border="1"> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>2540C, 4500 F.C., SM4500_C1_E, SM4500_H+, SM4500_S04_E</th> <th>903.0 - Radium 226</th> <th>904.0 - Radium 228</th> <th>Ra226Ra228, GFPC - Rad Combined</th> <th>6010C, 6020A, 7470A</th> <th>Total Number of Containers</th> <th>Special Instructions/Note</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>Preservation Code</td> <td></td> <td>N</td> <td>D</td> <td>D</td> <td>D</td> <td>D</td> <td></td> <td></td> </tr> </table>		Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	2540C, 4500 F.C., SM4500_C1_E, SM4500_H+, SM4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228, GFPC - Rad Combined	6010C, 6020A, 7470A	Total Number of Containers	Special Instructions/Note					Preservation Code		N	D	D	D	D			Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify) Other		
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	2540C, 4500 F.C., SM4500_C1_E, SM4500_H+, SM4500_S04_E	903.0 - Radium 226	904.0 - Radium 228	Ra226Ra228, GFPC - Rad Combined	6010C, 6020A, 7470A	Total Number of Containers	Special Instructions/Note																		
				Preservation Code		N	D	D	D	D																				
1 MW 15	7/20/21	1143	G	Water		X	X	X	X	X																				
2 MW-14	7/20/21	1051	G	Water		X	X	X	X	X																				
3 MW 17	7/20/21	1221	G	Water		X	X	X	X	X																				
4 MW-20	7/20/21	1011	G	Water		X	X	X	X	X																				
5 MW 21	7/20/21	0930	G	Water		X	X	X	X	X																				
6 Duplicate	7/20/21	-	G	Water		X	X	X	X	X																				

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 *Full App III + IV parameters*

Empty Kit Relinquished by _____ Date _____ Time _____ Method of Shipment: _____

Relinquished by *Mitchel Dolan* Date/Time *7/20/21 / 1400* Company *KPRG* Received by *FEDEX* Date/Time *7/20/21 / 1400* Company *FEDEX*

Relinquished by _____ Date/Time _____ Company _____ Received by *Shirley Scott* Date/Time *7/21/21 1405* Company *ETA*

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 *59.58*

FZ

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 20JUL21
ACTWGT: 50.00 LB
CAD: 6994779/SSFE2202
DIMS: 24x18x12 IN

BILL THIRD PARTY

TO **EUROFINS TESTAMERICA**
ATTN: SAMPLE RECEIVING - J
2417 BOND ST

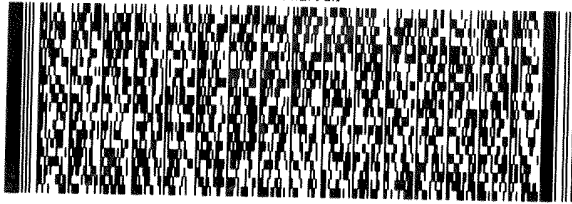


UNIVERSITY PARK IL 60484 500-202648 Wayt

(000) 000-0000
INU:
PO:

REF:

DEPT:



FedEx
Express



J212021070801W

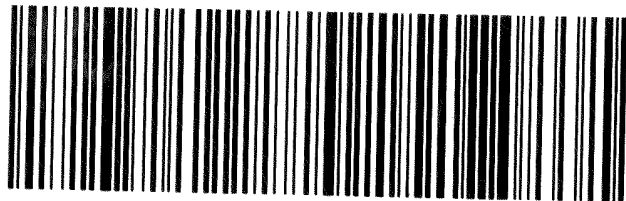
1 of 2

TRK# **2816 5948 8772**
0201
MASTER

WED - 21 JUL 4:30P
STANDARD OVERNIGHT

UF JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 20JUL21
ACTWGT: 52.30 LB
CAD: 6994779/SSFE2202
DIMS: 24x18x12 IN

BILL THIRD PARTY

TO **EUROFINS TESTAMERICA**
ATTN: SAMPLE RECEIVING - JIM KNAPP
2417 BOND ST

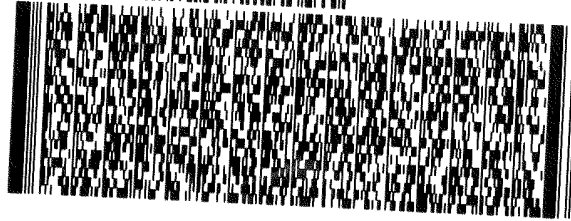
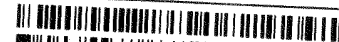
UNIVERSITY PARK IL 60484

(000) 000-0000

INU:
PO:

REF:

DEPT:



FedEx
Express



M 1065020120212F

2 of 2

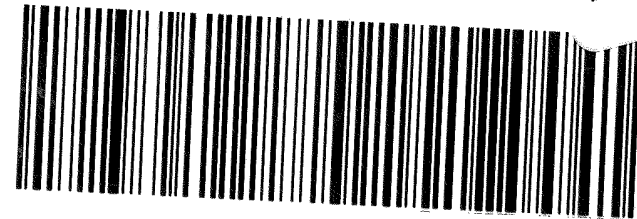
MPS# **2816 5948 8783**
0263
Mstr# 2816 5948 8772

WED - 21 JUL 4:30P
STANDARD OVERNIGHT

0201

UF JOTA

IL RT **651**
FZ



Part # 156295-436-3075940-2105 03/22

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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-150659.1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North,	Accreditations Required (See note): NELAP - Illinois	Job #: 500-202648-2
City: Earth City	State, Zip: MO, 63045	Phone: 314-298-8566(Tel) 314-298-8757(Fax)	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
PO #:	WO #:	Project #: 50018578	Analysis Requested	
SSOW#:	Due Date Requested: 8/10/2021	TAT Requested (days):	Total Number of Containers	
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)	903.03/PreSep_21 Standard Target List	904.04/PreSep_0 Standard Target List
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, B=1st class, A=air)	Special Instructions/Note:
MW-15 (500-202648-1)	7/20/21 11:43 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-14 (500-202648-2)	7/20/21 10:51 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-17 (500-202648-3)	7/20/21 12:21 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-20 (500-202648-4)	7/20/21 10:11 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-21 (500-202648-5)	7/20/21 09:30 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
Duplicate (500-202648-6)	7/20/21 Central	Water	Water	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Shin Abbotts* Date: *7/21/21* 1500
 Relinquished by: **FED EX** Date/Time: *7/22 2021 00:24* **ETA SN**
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Custody Seal No.: _____
 Δ Yes Δ No

Received by: *MICHA KENNEDY* Date/Time: *JUL 22 2021 00:24* Company: *ETA SN*
 Received by: _____ Date/Time: _____ Company: _____
 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: _____



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-202648-2

Login Number: 202648

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.9,5.8
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: 500-202648-2

Login Number: 202648

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 07/22/21 08:33 PM

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



Lab Chronicle

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

Job ID: 500-202648-2

Client Sample ID: MW-15

Date Collected: 07/20/21 11:43

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			520330	07/27/21 11:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	523169	08/18/21 12:31	CMM	TAL SL
Total/NA	Prep	PrecSep_0			520353	07/27/21 13:02	MJ	TAL SL
Total/NA	Analysis	904.0		1	520877	08/02/21 12:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523734	08/23/21 17:25	FLC	TAL SL

Client Sample ID: MW-14

Date Collected: 07/20/21 10:51

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			520330	07/27/21 11:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	523156	08/18/21 12:33	ANW	TAL SL
Total/NA	Prep	PrecSep_0			520353	07/27/21 13:02	MJ	TAL SL
Total/NA	Analysis	904.0		1	520877	08/02/21 12:53	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523734	08/23/21 17:25	FLC	TAL SL

Client Sample ID: MW-17

Date Collected: 07/20/21 12:21

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			520330	07/27/21 11:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	523158	08/18/21 12:37	CMM	TAL SL
Total/NA	Prep	PrecSep_0			520353	07/27/21 13:02	MJ	TAL SL
Total/NA	Analysis	904.0		1	520877	08/02/21 12:53	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523734	08/23/21 17:25	FLC	TAL SL

Client Sample ID: MW-20

Date Collected: 07/20/21 10:11

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			520330	07/27/21 11:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	523158	08/18/21 12:37	CMM	TAL SL
Total/NA	Prep	PrecSep_0			520353	07/27/21 13:02	MJ	TAL SL
Total/NA	Analysis	904.0		1	520877	08/02/21 12:53	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523734	08/23/21 17:25	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-202648-2

Client Sample ID: MW-21

Date Collected: 07/20/21 09:30

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			520330	07/27/21 11:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	523156	08/18/21 13:56	ANW	TAL SL
Total/NA	Prep	PrecSep_0			520353	07/27/21 13:02	MJ	TAL SL
Total/NA	Analysis	904.0		1	520876	08/02/21 12:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523734	08/23/21 17:25	FLC	TAL SL

Client Sample ID: Duplicate

Date Collected: 07/20/21 00:00

Date Received: 07/21/21 14:05

Lab Sample ID: 500-202648-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			520330	07/27/21 11:06	MJ	TAL SL
Total/NA	Analysis	903.0		1	523156	08/18/21 13:58	ANW	TAL SL
Total/NA	Prep	PrecSep_0			520353	07/27/21 13:02	MJ	TAL SL
Total/NA	Analysis	904.0		1	520876	08/02/21 13:46	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523734	08/23/21 17:25	FLC	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-202648-2

Laboratory: Eurofins TestAmerica, St. Louis

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

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

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Tracer/Carrier Summary

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

Job ID: 500-202648-2

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)	
500-202648-1	MW-15	87.3	
500-202648-1 DU	MW-15	93.0	
500-202648-2	MW-14	91.0	
500-202648-3	MW-17	87.7	
500-202648-4	MW-20	87.3	
500-202648-5	MW-21	78.9	
500-202648-6	Duplicate	91.7	
LCS 160-520330/1-A	Lab Control Sample	66.4	
MB 160-520330/23-A	Method Blank	50.0	
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)
500-202648-1	MW-15	87.3	86.6
500-202648-1 DU	MW-15	93.0	89.6
500-202648-2	MW-14	91.0	89.6
500-202648-3	MW-17	87.7	88.7
500-202648-4	MW-20	87.3	89.9
500-202648-5	MW-21	78.9	85.1
500-202648-6	Duplicate	91.7	86.3
LCS 160-520353/1-A	Lab Control Sample	66.4	90.8
MB 160-520353/23-A	Method Blank	50.0	91.7
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			