

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 3rd quarter 2023 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. Former Ash Basin.

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/10/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
	11/30/2021	5.43
	2/9/2022	11.5
	6/7/2022	3.63
	8/30/2022	4.73
	11/15/2022	3.9
	2/22/2023	4.54
5/17/2023	4.33	
8/29/2023	4.40	
MW-10	2/23/2021	257.70
	4/9/2021	54.91
	5/11/2021	24.74
	6/2/2021	6.02
	6/28/2021	14.11
	7/19/2021	17.53
	8/24/2021	41.55
	9/30/2021	17.07
	11/30/2021	11.92
	2/9/2022	224.6
	6/7/2022	7.88
	8/30/2022	13.34
	11/15/2022	23.18
	2/22/2023	14.31
5/17/2023	30.70	
8/29/2023	31.79	
MW-02	2/22/2021	19.60
	4/8/2021	4.55
	5/11/2021	1.82
	6/2/2021	2.06
	6/28/2021	2.67
	7/19/2021	3.56
	8/24/2021	5.23
	10/1/2021	2.76
	11/30/2021	0.0
	2/8/2022	0.0
	6/7/2022	2.03
	8/30/2022	2.46
	11/14/2022	29.35
	2/21/2023	2.63
5/16/2023	62.49	
8/28/2023	1.70	
MW-03	2/22/2021	8.20
	4/8/2021	4.00
	5/11/2021	2.68
	6/2/2021	3.63
	6/28/2021	3.32
	7/19/2021	4.22
	8/24/2021	5.75
	10/1/2021	2.45
	11/30/2021	0.0
	2/8/2022	0.0
	6/7/2022	1.72
	8/30/2022	2.67
	11/14/2022	4.03
	2/21/2023	2.33
5/16/2023	6.94	
8/28/2023	1.45	

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

MW-04	2/22/2021	4.20
	4/8/2021	4.05
	5/11/2021	4.33
	6/2/2021	2.12
	6/28/2021	8.21
	7/19/2021	3.84
	8/24/2021	2.92
	10/1/2021	2.72
	11/30/2021	0.0
	2/8/2022	11.09
	6/7/2022	1.62
	8/30/2022	4.05
	11/14/2022	20.70
	2/21/2023	3.70
	5/16/2023	2.50
8/28/2023	5.59	
MW-05	2/22/2021	1.72
	4/8/2021	4.00
	5/11/2021	1.82
	6/2/2021	1.88
	6/28/2021	3.49
	7/19/2021	8.39
	8/24/2021	3.20
	10/1/2021	3.12
	11/30/2021	0.0
	2/8/2022	0.0
	6/7/2022	2.33
	8/30/2022	2.70
	11/14/2022	2.05
	2/21/2023	2.16
	5/16/2023	2.55
8/28/2023	1.50	

 **ANALYTICAL REPORT****PREPARED FOR**

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JOB DESCRIPTION

Powerton CCR FAB

JOB NUMBER

500-238774-1

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	14
QC Association	15
QC Sample Results	18
Chain of Custody	24
Receipt Checklists	30
Chronicle	32
Certification Summary	35

Case Narrative

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

Job ID: 500-238774-1

Job ID: 500-238774-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-238774-1

Receipt

The samples were received on 8/29/2023 10:10 AM. 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 1.5° C and 8.4° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-05 (500-238774-4), MW-01 (500-238774-5), MW-10 (500-238774-6) and Duplicate (500-238774-7).

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 FAB

Job ID: 500-238774-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
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 CF
7470A	Preparation, Mercury	SW846	EET CF

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 CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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 FAB

Job ID: 500-238774-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238774-1	MW-02	Water	08/28/23 10:55	08/29/23 10:10
500-238774-2	MW-03	Water	08/28/23 11:28	08/29/23 10:10
500-238774-3	MW-04	Water	08/28/23 12:31	08/29/23 10:10
500-238774-4	MW-05	Water	08/29/23 08:50	08/30/23 10:10
500-238774-5	MW-01	Water	08/29/23 12:20	08/30/23 10:10
500-238774-6	MW-10	Water	08/29/23 13:32	08/30/23 10:10
500-238774-7	Duplicate	Water	08/29/23 00:00	08/30/23 10:10

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Client Sample Results

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

Job ID: 500-238774-1

Client Sample ID: MW-02
Date Collected: 08/28/23 10:55
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-1
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:09	1
Boron	2.7		0.10		mg/L		09/01/23 09:00	09/19/23 17:43	1
Barium	0.081		0.0020		mg/L		09/01/23 09:00	09/15/23 19:09	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 19:09	1
Calcium	94		0.50		mg/L		09/01/23 09:00	09/15/23 19:09	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 19:09	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 19:09	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:09	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:09	1
Lead	0.00058		0.00050		mg/L		09/01/23 09:00	09/19/23 17:43	1
Antimony	<0.0020	F1	0.0020		mg/L		09/01/23 09:00	09/19/23 17:43	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:09	1
Thallium	0.0031	F1	0.0010		mg/L		09/01/23 09:00	09/21/23 14:31	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 19:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/23 10:26	09/11/23 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	490		10		mg/L			08/31/23 23:27	1
Chloride (SM 4500 Cl- E)	46		4.0		mg/L			08/31/23 14:34	2
Fluoride (SM 4500 F C)	0.16		0.10		mg/L			09/10/23 12:19	1
Sulfate (SM 4500 SO4 E)	70		10		mg/L			08/30/23 14:49	2

Client Sample Results

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

Job ID: 500-238774-1

Client Sample ID: MW-03
Date Collected: 08/28/23 11:28
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-2
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:44	1
Boron	0.32		0.10		mg/L		09/01/23 09:00	09/19/23 17:49	1
Barium	0.096		0.0020		mg/L		09/01/23 09:00	09/15/23 19:44	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 19:44	1
Calcium	73		0.50		mg/L		09/01/23 09:00	09/15/23 19:44	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 19:44	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 19:44	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:44	1
Molybdenum	0.0023		0.0020		mg/L		09/01/23 09:00	09/15/23 19:44	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 17:49	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 17:49	1
Selenium	0.0070		0.0050		mg/L		09/01/23 09:00	09/15/23 19:44	1
Thallium	0.0030		0.0010		mg/L		09/01/23 09:00	09/19/23 17:49	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 19:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/23 10:26	09/11/23 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	430		10		mg/L			08/31/23 23:30	1
Chloride (SM 4500 Cl- E)	82		4.0		mg/L			08/31/23 14:34	2
Fluoride (SM 4500 F C)	0.20		0.10		mg/L			09/10/23 12:24	1
Sulfate (SM 4500 SO4 E)	36		10		mg/L			08/30/23 15:09	2

Client Sample Results

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

Job ID: 500-238774-1

Client Sample ID: MW-04
Date Collected: 08/28/23 12:31
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-3
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:48	1
Boron	0.78		0.10		mg/L		09/01/23 09:00	09/19/23 17:52	1
Barium	0.062		0.0020		mg/L		09/01/23 09:00	09/15/23 19:48	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 19:48	1
Calcium	95		0.50		mg/L		09/01/23 09:00	09/15/23 19:48	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 19:48	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 19:48	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:48	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:48	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 17:52	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 17:52	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:48	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 17:52	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 19:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/23 10:26	09/11/23 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			08/31/23 23:32	1
Chloride (SM 4500 Cl- E)	72		4.0		mg/L			08/31/23 14:35	2
Fluoride (SM 4500 F C)	0.24		0.10		mg/L			09/10/23 12:36	1
Sulfate (SM 4500 SO4 E)	110		25		mg/L			08/30/23 15:09	5

Client Sample Results

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

Job ID: 500-238774-1

Client Sample ID: MW-05
Date Collected: 08/29/23 08:50
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-4
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:51	1
Boron	1.1		0.10		mg/L		09/01/23 09:00	09/19/23 17:54	1
Barium	0.037		0.0020		mg/L		09/01/23 09:00	09/15/23 19:51	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 19:51	1
Calcium	98		0.50		mg/L		09/01/23 09:00	09/15/23 19:51	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 19:51	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 19:51	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:51	1
Molybdenum	0.0040		0.0020		mg/L		09/01/23 09:00	09/15/23 19:51	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 17:54	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 17:54	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:51	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 17:54	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 19:51	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/23 10:26	09/11/23 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	660		10		mg/L			08/31/23 23:35	1
Chloride (SM 4500 Cl- E)	80		4.0		mg/L			09/12/23 17:05	2
Fluoride (SM 4500 F C)	0.29		0.10		mg/L			09/10/23 12:50	1
Sulfate (SM 4500 SO4 E)	83		10		mg/L			09/20/23 16:45	2

Client Sample Results

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

Job ID: 500-238774-1

Client Sample ID: MW-01
Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-5
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:55	1
Boron	0.59		0.10		mg/L		09/01/23 09:00	09/19/23 17:56	1
Barium	0.078		0.0020		mg/L		09/01/23 09:00	09/15/23 19:55	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 19:55	1
Calcium	100		0.50		mg/L		09/01/23 09:00	09/15/23 19:55	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 19:55	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 19:55	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:55	1
Molybdenum	0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:55	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 17:56	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 17:56	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:55	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 17:56	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 19:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/23 10:26	09/11/23 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	530		10		mg/L			08/31/23 23:38	1
Chloride (SM 4500 Cl- E)	47		4.0		mg/L			09/12/23 17:04	2
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			09/10/23 13:05	1
Sulfate (SM 4500 SO4 E)	43		5.0		mg/L			09/20/23 16:23	1

Client Sample Results

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

Job ID: 500-238774-1

Client Sample ID: MW-10
Date Collected: 08/29/23 13:32
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-6
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:58	1
Boron	1.3		0.10		mg/L		09/01/23 09:00	09/19/23 17:58	1
Barium	0.20		0.0020		mg/L		09/01/23 09:00	09/15/23 19:58	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 19:58	1
Calcium	96		0.50		mg/L		09/01/23 09:00	09/15/23 19:58	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 19:58	1
Cobalt	0.0042		0.00050		mg/L		09/01/23 09:00	09/15/23 19:58	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:58	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 19:58	1
Lead	0.00083		0.00050		mg/L		09/01/23 09:00	09/19/23 17:58	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 17:58	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 19:58	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 17:58	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 19:58	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/23 10:26	09/11/23 10:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	510		10		mg/L			08/31/23 23:40	1
Chloride (SM 4500 Cl- E)	56		4.0		mg/L			09/12/23 17:05	2
Fluoride (SM 4500 F C)	0.29		0.10		mg/L			09/10/23 13:10	1
Sulfate (SM 4500 SO4 E)	50		10		mg/L			09/20/23 15:40	2

Client Sample Results

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

Job ID: 500-238774-1

Client Sample ID: Duplicate
Date Collected: 08/29/23 00:00
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-7
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:02	1
Boron	1.3		0.10		mg/L		09/01/23 09:00	09/19/23 18:14	1
Barium	0.19		0.0020		mg/L		09/01/23 09:00	09/15/23 20:02	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 20:02	1
Calcium	95		0.50		mg/L		09/01/23 09:00	09/15/23 20:02	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 20:02	1
Cobalt	0.0033		0.00050		mg/L		09/01/23 09:00	09/15/23 20:02	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:02	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 20:02	1
Lead	0.00065		0.00050		mg/L		09/01/23 09:00	09/19/23 18:14	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 18:14	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 20:02	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 18:14	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 20:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		09/08/23 10:26	09/11/23 10:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	490		10		mg/L			08/31/23 23:43	1
Chloride (SM 4500 Cl- E)	56		4.0		mg/L			09/12/23 17:04	2
Fluoride (SM 4500 F C)	0.29		0.10		mg/L			09/10/23 13:15	1
Sulfate (SM 4500 SO4 E)	51		10		mg/L			09/20/23 16:46	2

Definitions/Glossary

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

Job ID: 500-238774-1

Qualifiers

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
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.
F1	MS and/or MSD recovery exceeds control limits.

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 FAB

Job ID: 500-238774-1

Metals

Prep Batch: 398373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total Recoverable	Water	3005A	
500-238774-2	MW-03	Total Recoverable	Water	3005A	
500-238774-3	MW-04	Total Recoverable	Water	3005A	
500-238774-4	MW-05	Total Recoverable	Water	3005A	
500-238774-5	MW-01	Total Recoverable	Water	3005A	
500-238774-6	MW-10	Total Recoverable	Water	3005A	
500-238774-7	Duplicate	Total Recoverable	Water	3005A	
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-238774-1 MS	MW-02	Total Recoverable	Water	3005A	
500-238774-1 MSD	MW-02	Total Recoverable	Water	3005A	

Prep Batch: 399007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total/NA	Water	7470A	
500-238774-2	MW-03	Total/NA	Water	7470A	
500-238774-3	MW-04	Total/NA	Water	7470A	
500-238774-4	MW-05	Total/NA	Water	7470A	
500-238774-5	MW-01	Total/NA	Water	7470A	
500-238774-6	MW-10	Total/NA	Water	7470A	
500-238774-7	Duplicate	Total/NA	Water	7470A	
MB 310-399007/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-399007/2-A	Lab Control Sample	Total/NA	Water	7470A	
500-238774-2 MS	MW-03	Total/NA	Water	7470A	
500-238774-2 MSD	MW-03	Total/NA	Water	7470A	

Analysis Batch: 399188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total/NA	Water	7470A	399007
500-238774-2	MW-03	Total/NA	Water	7470A	399007
500-238774-3	MW-04	Total/NA	Water	7470A	399007
500-238774-4	MW-05	Total/NA	Water	7470A	399007
500-238774-5	MW-01	Total/NA	Water	7470A	399007
500-238774-6	MW-10	Total/NA	Water	7470A	399007
500-238774-7	Duplicate	Total/NA	Water	7470A	399007
MB 310-399007/1-A	Method Blank	Total/NA	Water	7470A	399007
LCS 310-399007/2-A	Lab Control Sample	Total/NA	Water	7470A	399007
500-238774-2 MS	MW-03	Total/NA	Water	7470A	399007
500-238774-2 MSD	MW-03	Total/NA	Water	7470A	399007

Analysis Batch: 399821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total Recoverable	Water	6020B	398373
500-238774-2	MW-03	Total Recoverable	Water	6020B	398373
500-238774-3	MW-04	Total Recoverable	Water	6020B	398373
500-238774-4	MW-05	Total Recoverable	Water	6020B	398373
500-238774-5	MW-01	Total Recoverable	Water	6020B	398373
500-238774-6	MW-10	Total Recoverable	Water	6020B	398373
500-238774-7	Duplicate	Total Recoverable	Water	6020B	398373
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	6020B	398373
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373

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QC Association Summary

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

Job ID: 500-238774-1

Metals (Continued)

Analysis Batch: 399821 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1 MS	MW-02	Total Recoverable	Water	6020B	398373
500-238774-1 MSD	MW-02	Total Recoverable	Water	6020B	398373

Analysis Batch: 400043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total Recoverable	Water	6020B	398373
500-238774-2	MW-03	Total Recoverable	Water	6020B	398373
500-238774-3	MW-04	Total Recoverable	Water	6020B	398373
500-238774-4	MW-05	Total Recoverable	Water	6020B	398373
500-238774-5	MW-01	Total Recoverable	Water	6020B	398373
500-238774-6	MW-10	Total Recoverable	Water	6020B	398373
500-238774-7	Duplicate	Total Recoverable	Water	6020B	398373
MB 310-398373/1-A	Method Blank	Total Recoverable	Water	6020B	398373
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373
500-238774-1 MS	MW-02	Total Recoverable	Water	6020B	398373
500-238774-1 MSD	MW-02	Total Recoverable	Water	6020B	398373

Analysis Batch: 400290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total Recoverable	Water	6020B	398373
LCS 310-398373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	398373
500-238774-1 MS	MW-02	Total Recoverable	Water	6020B	398373
500-238774-1 MSD	MW-02	Total Recoverable	Water	6020B	398373

General Chemistry

Analysis Batch: 730329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-238774-2	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-238774-3	MW-04	Total/NA	Water	SM 4500 SO4 E	
MB 500-730329/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-730329/55	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-730329/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-730329/59	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-238774-2 MS	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-238774-2 MSD	MW-03	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 730408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total/NA	Water	SM 4500 CI- E	
500-238774-2	MW-03	Total/NA	Water	SM 4500 CI- E	
500-238774-3	MW-04	Total/NA	Water	SM 4500 CI- E	
MB 500-730408/46	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-730408/47	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 730463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total/NA	Water	SM 2540C	
500-238774-2	MW-03	Total/NA	Water	SM 2540C	
500-238774-3	MW-04	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-238774-1

General Chemistry (Continued)

Analysis Batch: 730463 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-4	MW-05	Total/NA	Water	SM 2540C	
500-238774-5	MW-01	Total/NA	Water	SM 2540C	
500-238774-6	MW-10	Total/NA	Water	SM 2540C	
500-238774-7	Duplicate	Total/NA	Water	SM 2540C	
MB 500-730463/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-730463/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 731562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total/NA	Water	SM 4500 F C	
500-238774-2	MW-03	Total/NA	Water	SM 4500 F C	
500-238774-3	MW-04	Total/NA	Water	SM 4500 F C	
500-238774-4	MW-05	Total/NA	Water	SM 4500 F C	
500-238774-5	MW-01	Total/NA	Water	SM 4500 F C	
500-238774-6	MW-10	Total/NA	Water	SM 4500 F C	
500-238774-7	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-731562/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-731562/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-731562/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-731562/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-238774-3 MS	MW-04	Total/NA	Water	SM 4500 F C	
500-238774-3 MSD	MW-04	Total/NA	Water	SM 4500 F C	

Analysis Batch: 731959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-4	MW-05	Total/NA	Water	SM 4500 CI- E	
500-238774-5	MW-01	Total/NA	Water	SM 4500 CI- E	
500-238774-6	MW-10	Total/NA	Water	SM 4500 CI- E	
500-238774-7	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-731959/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-731959/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 733315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-4	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-238774-5	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-238774-6	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-238774-7	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-733315/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-733315/88	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-733315/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-733315/89	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-238774-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-398373/1-A
Matrix: Water
Analysis Batch: 399821

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Barium	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Beryllium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/15/23 18:58	1
Calcium	<0.50		0.50		mg/L		09/01/23 09:00	09/15/23 18:58	1
Cadmium	<0.00020		0.00020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Cobalt	<0.00050		0.00050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Chromium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Molybdenum	<0.0020		0.0020		mg/L		09/01/23 09:00	09/15/23 18:58	1
Selenium	<0.0050		0.0050		mg/L		09/01/23 09:00	09/15/23 18:58	1
Lithium	<0.010		0.010		mg/L		09/01/23 09:00	09/15/23 18:58	1

Lab Sample ID: MB 310-398373/1-A
Matrix: Water
Analysis Batch: 400043

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.10		0.10		mg/L		09/01/23 09:00	09/19/23 17:38	1
Lead	<0.00050		0.00050		mg/L		09/01/23 09:00	09/19/23 17:38	1
Antimony	<0.0020		0.0020		mg/L		09/01/23 09:00	09/19/23 17:38	1
Thallium	<0.0010		0.0010		mg/L		09/01/23 09:00	09/19/23 17:38	1

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 399821

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.0971		mg/L		97	80 - 120
Beryllium	0.100	0.0938		mg/L		94	80 - 120
Calcium	2.00	1.86		mg/L		93	80 - 120
Cadmium	0.100	0.0926		mg/L		93	80 - 120
Cobalt	0.100	0.0976		mg/L		98	80 - 120
Chromium	0.100	0.0978		mg/L		98	80 - 120
Molybdenum	0.200	0.197		mg/L		99	80 - 120
Selenium	0.400	0.371		mg/L		93	80 - 120
Lithium	0.200	0.192		mg/L		96	80 - 120

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 400043

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	0.200	0.223		mg/L		111	80 - 120
Antimony	0.200	0.230		mg/L		115	80 - 120

QC Sample Results

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

Job ID: 500-238774-1

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

Lab Sample ID: LCS 310-398373/2-A
Matrix: Water
Analysis Batch: 400290

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.200	0.175		mg/L		88	80 - 120

Lab Sample ID: 500-238774-1 MS
Matrix: Water
Analysis Batch: 399821

Client Sample ID: MW-02
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	<0.0020		0.200	0.201		mg/L		100	75 - 125
Barium	0.081		0.100	0.177		mg/L		95	75 - 125
Beryllium	<0.0010		0.100	0.0932		mg/L		93	75 - 125
Calcium	94		2.00	94.7	4	mg/L		36	75 - 125
Cadmium	<0.00020		0.100	0.0959		mg/L		96	75 - 125
Cobalt	<0.00050		0.100	0.0933		mg/L		93	75 - 125
Chromium	<0.0050		0.100	0.0957		mg/L		96	75 - 125
Molybdenum	<0.0020		0.200	0.195		mg/L		97	75 - 125
Selenium	<0.0050		0.400	0.382		mg/L		95	75 - 125
Lithium	<0.010		0.200	0.189		mg/L		91	75 - 125

Lab Sample ID: 500-238774-1 MS
Matrix: Water
Analysis Batch: 400043

Client Sample ID: MW-02
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2.7		0.200	2.97	4 *+	mg/L		113	75 - 125
Lead	0.00058		0.200	0.216	*+	mg/L		108	75 - 125
Antimony	<0.0020	F1	0.200	0.246	*+	mg/L		123	75 - 125

Lab Sample ID: 500-238774-1 MS
Matrix: Water
Analysis Batch: 400290

Client Sample ID: MW-02
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.0031	F1	0.200	0.144	F1	mg/L		70	75 - 125

Lab Sample ID: 500-238774-1 MSD
Matrix: Water
Analysis Batch: 399821

Client Sample ID: MW-02
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	<0.0020		0.200	0.200		mg/L		100	75 - 125	0	20
Barium	0.081		0.100	0.176		mg/L		95	75 - 125	0	20
Beryllium	<0.0010		0.100	0.0936		mg/L		94	75 - 125	0	20
Calcium	94		2.00	95.2	4	mg/L		60	75 - 125	0	20
Cadmium	<0.00020		0.100	0.0951		mg/L		95	75 - 125	1	20
Cobalt	<0.00050		0.100	0.0927		mg/L		93	75 - 125	1	20
Chromium	<0.0050		0.100	0.0960		mg/L		96	75 - 125	0	20
Molybdenum	<0.0020		0.200	0.196		mg/L		97	75 - 125	0	20
Selenium	<0.0050		0.400	0.385		mg/L		95	75 - 125	1	20
Lithium	<0.010		0.200	0.190		mg/L		92	75 - 125	0	20

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QC Sample Results

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

Job ID: 500-238774-1

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

Lab Sample ID: 500-238774-1 MSD
Matrix: Water
Analysis Batch: 400043

Client Sample ID: MW-02
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Boron	2.7		0.200	2.97	4 *+	mg/L		113	75 - 125	0	20
Lead	0.00058		0.200	0.220	*+	mg/L		110	75 - 125	2	20
Antimony	<0.0020	F1	0.200	0.252	F1 *+	mg/L		126	75 - 125	2	20

Lab Sample ID: 500-238774-1 MSD
Matrix: Water
Analysis Batch: 400290

Client Sample ID: MW-02
Prep Type: Total Recoverable
Prep Batch: 398373

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Thallium	0.0031	F1	0.200	0.152	F1	mg/L		74	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-399007/1-A
Matrix: Water
Analysis Batch: 399188

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 399007

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		09/08/23 10:25	09/11/23 10:25	1

Lab Sample ID: LCS 310-399007/2-A
Matrix: Water
Analysis Batch: 399188

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 399007

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
Mercury	0.00167	0.00161		mg/L		97	80 - 120

Lab Sample ID: 500-238774-2 MS
Matrix: Water
Analysis Batch: 399188

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 399007

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
Mercury	<0.00020		0.00167	0.00161		mg/L		96	80 - 120

Lab Sample ID: 500-238774-2 MSD
Matrix: Water
Analysis Batch: 399188

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 399007

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Mercury	<0.00020		0.00167	0.00161		mg/L		96	80 - 120	0	20

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

Lab Sample ID: MB 500-730463/1
Matrix: Water
Analysis Batch: 730463

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10		mg/L			08/31/23 23:07	1

Eurofins Chicago

QC Sample Results

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

Job ID: 500-238774-1

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

Lab Sample ID: LCS 500-730463/2
Matrix: Water
Analysis Batch: 730463

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	240		mg/L		96	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-730408/46
Matrix: Water
Analysis Batch: 730408

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			08/31/23 14:31	1

Lab Sample ID: LCS 500-730408/47
Matrix: Water
Analysis Batch: 730408

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	19.7		mg/L		99	85 - 115

Lab Sample ID: MB 500-731959/16
Matrix: Water
Analysis Batch: 731959

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			09/12/23 17:03	1

Lab Sample ID: LCS 500-731959/17
Matrix: Water
Analysis Batch: 731959

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 500-731562/3
Matrix: Water
Analysis Batch: 731562

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			09/10/23 10:16	1

Lab Sample ID: MB 500-731562/31
Matrix: Water
Analysis Batch: 731562

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			09/10/23 12:29	1

QC Sample Results

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

Job ID: 500-238774-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-731562/32
Matrix: Water
Analysis Batch: 731562

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	10.2		mg/L		102	90 - 119

Lab Sample ID: LCS 500-731562/4
Matrix: Water
Analysis Batch: 731562

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	10.1		mg/L		101	90 - 119

Lab Sample ID: 500-238774-3 MS
Matrix: Water
Analysis Batch: 731562

Client Sample ID: MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.24		5.00	5.22		mg/L		100	75 - 125

Lab Sample ID: 500-238774-3 MSD
Matrix: Water
Analysis Batch: 731562

Client Sample ID: MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.24		5.00	5.27		mg/L		101	75 - 125	1	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-730329/16
Matrix: Water
Analysis Batch: 730329

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			08/30/23 14:41	1

Lab Sample ID: MB 500-730329/55
Matrix: Water
Analysis Batch: 730329

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			08/30/23 15:07	1

Lab Sample ID: LCS 500-730329/17
Matrix: Water
Analysis Batch: 730329

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	20.7		mg/L		104	88 - 123

QC Sample Results

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

Job ID: 500-238774-1

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

Lab Sample ID: LCS 500-730329/59
Matrix: Water
Analysis Batch: 730329

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	21.0		mg/L		105	88 - 123

Lab Sample ID: 500-238774-2 MS
Matrix: Water
Analysis Batch: 730329

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	36		20.0	56.7		mg/L		101	75 - 125

Lab Sample ID: 500-238774-2 MSD
Matrix: Water
Analysis Batch: 730329

Client Sample ID: MW-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	36		20.0	55.9		mg/L		97	75 - 125	1	20

Lab Sample ID: MB 500-733315/16
Matrix: Water
Analysis Batch: 733315

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			09/20/23 15:12	1

Lab Sample ID: MB 500-733315/88
Matrix: Water
Analysis Batch: 733315

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			09/20/23 16:22	1

Lab Sample ID: LCS 500-733315/17
Matrix: Water
Analysis Batch: 733315

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	20.3		mg/L		102	88 - 123

Lab Sample ID: LCS 500-733315/89
Matrix: Water
Analysis Batch: 733315

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	20.1		mg/L		100	88 - 123

Eurofins Chicago

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

Chain of Custody Record

MKE 232

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Client Information			Sampler Jack Misner	Lab PM Mockler, Diana J	Carrier Tracking No(s)	COC No: 500-114458-46459 1																										
Client Contact: Kaelyn Sperle			Phone 202-622-1143	E-Mail Diana.Mockler@et.eurofinsus.com	State of Origin IL	Page: Page 1 of 1																										
Company KPRG and Associates, Inc.			PWSID#	Analysis Requested		Job #: 500-238774																										
Address: 14665 West Lisbon Road Suite 1A			Due Date Requested Standard			<table border="0" style="width:100%; font-size: 8px;"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td></tr> <tr><td>Performs MS/MSD (Yes or No)</td><td></td></tr> <tr><td>903.0 - Standard Target List</td><td></td></tr> <tr><td>Ra28Ra228, GFPC - Local Method</td><td></td></tr> <tr><td>904.0 - Standard Target List</td><td></td></tr> <tr><td>6020A, 7470A</td><td></td></tr> <tr><td>2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E</td><td></td></tr> </table>		Field Filtered Sample (Yes or No)		Performs MS/MSD (Yes or No)		903.0 - Standard Target List		Ra28Ra228, GFPC - Local Method		904.0 - Standard Target List		6020A, 7470A		2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E		Preservation Codes										
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City Brookfield			TAT Requested (days) Standard	<table border="0" style="width:100%; font-size: 8px;"> <tr><td>A - HCL</td><td>M - Hexane</td></tr> <tr><td>B - NaOH</td><td>N - None</td></tr> <tr><td>C - Zn Acetate</td><td>O - AsNaO2</td></tr> <tr><td>D - Nitric Acid</td><td>P - Na2O4S</td></tr> <tr><td>E - NaHSO4</td><td>Q - Na2SO3</td></tr> <tr><td>F - MeOH</td><td>R - Na2S2O3</td></tr> <tr><td>G - Amchlor</td><td>S - H2SO4</td></tr> <tr><td>H - Ascorbic Acid</td><td>T TSP Dodecahydrate</td></tr> <tr><td>I - Ice</td><td>U - Acetone</td></tr> <tr><td>J - DI Water</td><td>V - MCAA</td></tr> <tr><td>K - EDTA</td><td>W - pH 4-5</td></tr> <tr><td>L - EDA</td><td>Y - Trizma</td></tr> <tr><td></td><td>Z - other (specify)</td></tr> </table>		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	Y - Trizma		Z - other (specify)	Other
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	Z - other (specify)																															
State/Zip WI, 53005			Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No	Total Number of Containers		Special Instructions/Note:																										
Phone: 262-781-0475(Tel)			PO #: 4502125100																													
Email: kaelyns@kprginc.com			WVO #	<table border="0" style="width:100%; font-size: 8px;"> <tr><td>903.0 - Standard Target List</td><td></td></tr> <tr><td>Ra28Ra228, GFPC - Local Method</td><td></td></tr> <tr><td>904.0 - Standard Target List</td><td></td></tr> <tr><td>6020A, 7470A</td><td></td></tr> <tr><td>2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E</td><td></td></tr> </table>		903.0 - Standard Target List		Ra28Ra228, GFPC - Local Method		904.0 - Standard Target List		6020A, 7470A		2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E		<table border="0" style="width:100%; font-size: 8px;"> <tr><td>500-238774 COC</td></tr> </table>	500-238774 COC															
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Project Name: Powerton CCR FAB			Project #: 50011612																													
Site: Illinois			SSOW#:	<table border="0" style="width:100%; font-size: 8px;"> <tr><td>903.0 - Standard Target List</td><td></td></tr> <tr><td>Ra28Ra228, GFPC - Local Method</td><td></td></tr> <tr><td>904.0 - Standard Target List</td><td></td></tr> <tr><td>6020A, 7470A</td><td></td></tr> <tr><td>2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E</td><td></td></tr> </table>		903.0 - Standard Target List		Ra28Ra228, GFPC - Local Method		904.0 - Standard Target List		6020A, 7470A		2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E		<table border="0" style="width:100%; font-size: 8px;"> <tr><td>500-238774 COC</td></tr> </table>	500-238774 COC															
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500-238774 COC																																

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)					Total Number of Containers	Special Instructions/Note:	
					D	D	D	D	N			
MW-02	8/28/23	1055	G	Water	N	N	X	X	X	X	X	
MW-03	8/28/23	1128	G	Water	N	N	X	X	X	X	X	
MW-04	8/28/23	1231	G	Water	N	N	X	X	X	X	X	
				Water								
				Water								
				Water								
				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 checked="" 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 Non-hazardous			
Empty Kit Relinquished by		Date	Time	Method of Shipment:			
Relinquished by <i>J.M. Misner</i>		Date/Time: 8/28/23 1610	Company: KPRG	Received by <i>John Smith</i>		Date/Time: 8/29/23 1010	Company: EPTA
Relinquished by		Date/Time:	Company:	Received by		Date/Time:	Company:
Relinquished by		Date/Time:	Company:	Received by		Date/Time:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks 1.8-7.5					

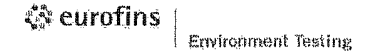
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Eurofins Chicago

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

Chain of Custody Record

MKE 232



Client Information		Sampler: <u>Kaelyn Sperle</u>		Lab PM: <u>Mockler, Diana J</u>		Carrier Tracking No(s):		COC No: <u>500-114458-46459 1</u>																					
Client Contact: <u>Kaelyn Sperle</u>		Phone: <u>262-278-1621</u>		E-Mail: <u>Diana Mockler@et.eurofins.com</u>		State of Origin: <u>IL</u>		Page: <u>1</u> Page 1 of 1																					
Company: <u>KPRG and Associates Inc.</u>		Address: <u>14665 West Lisbon Road, Suite 1A Brookfield State, Zip: <u>WI, 53005</u></u>		Due Date Requested: <u>Standard</u>		Analysis Requested		Job #: <u>500-238774</u>																					
Phone: <u>262-781-0475(Tel)</u>		E-mail: <u>kaelyns@kprginc.com</u>		TAT Requested (days): <u>Standard</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Preservation Codes:																					
Project Name: <u>Poweron CCR FAB</u>		Project #: <u>50011612</u>		SSOW#: _____		PO #: <u>4502125100</u>		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - As/NaO2 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 - EDTA Y - Trizma Z - other (specify)																					
Site: <u>Illinois</u>		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 Samples (Yes or No)		Pilot/In-SIMS/IE (Yes or No)		903.0 - Standard Target List		Re:226Ra228_GPPC - Local Method		904.0 - Standard Target List		6020A, 7470A		2540C, 4500_F_C, SIM4500_CL_E, SIM4500_SO4_E		Total Number of Containers		Special Instructions/Note:	
<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 checked="" type="checkbox"/> Deliverable Requested I, II, III, IV Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Relinquished by: <u>Kaelyn Sperle</u>		Date/Time: <u>8/29/23/1720</u>		Company: <u>KPRG</u>		Received by: <u>Shirley Smith</u>		Date/Time: <u>8/30/23 1010</u>		Company: <u>BETA</u>		Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>7.9 -> 8.4</u>		Ver 06/08/2021		9/22/2023	



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

SHIP DATE: 28AUG23
ACTWGT: 59.40 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

Part # 156297-426/MSD28R/GRP 04/24

TO EUROFINS

2417 BOND ST.



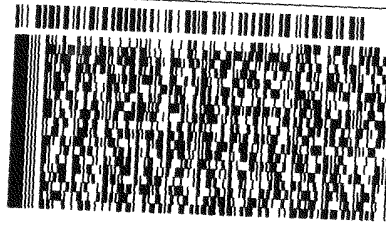
UNIVERSITY PARK IL 60484

500-238774 Waybi

(666) 666-6666
INU:
PO:

REF

DEPT:



RT 519
ST 19

5 10:30 A
4927
08.29

REL#
3785346

1 of 2
TRK# 7830 4006 4927
0201
MASTER

TUE - 29 AUG 10:30A
PRIORITY OVERNIGHT

XN JOTA

AHS
60484
IL-US ORD



7.9.25

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

WESTMONT, IL 60559
UNITED STATES US

TO **EUROFINS CHICAGO**

2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666
YNU:
PO:

REF:

DEPT:



FedEx
Express



AN 101E70E21E3E7

3 of 4

MPS# 7830 9817 4801
0263
Mstr# 7830 9817 4786

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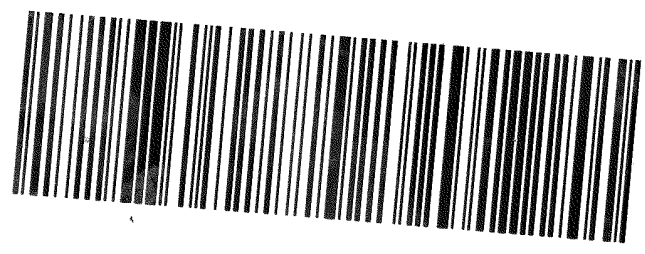
WED - 30 AUG 10:30A
PRIORITY OVERNIGHT

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60484

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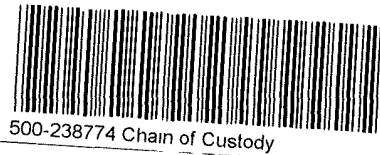
5 10 30 A
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Part # 156297-438-AH028-690 04/24

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Environment Testing
America

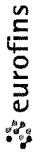


Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Chicago</u>			
City/State:	CITY	STATE	Project:
		<u>IL</u>	
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>8-31-23</u>	<u>1000</u>	<u>MC</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee			
<input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>R</u>		Correction Factor (°C): <u>0</u>	
* Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): _____		Corrected Temp (°C): _____	
Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u> <u>250ml plastic</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):	<u>0.7</u>		
Corrected Temp (°C):	<u>0.7</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:		Phone:	Mockler, Diana J		500-178451 1
Shipping/Receiving			E-Mail:	State of Origin:	Page:
Company			Diana Mockler@et.eurofins.com	Illinois	1 of 1
Address:		Due Date Requested:	Accreditations Required (See note):		
3019 Venture Way,		9/19/2023	NELAP - Illinois		
City:		TAT Requested (days):	Analysis Requested		
Cedar Falls					
State, Zip:		PO #:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	7470A/7470A Prep Mercury
IA, 50613		WO #:	Matrix	Sample Type (C=comp, G=grab)	Sample Date
Phone:		Project #:	(W=water, S=solid, O=metal, B=trace, A=AI)	Preservation Code:	Sample Date
319-277-2401(Tel) 319-277-2425(Fax)		50011612			Sample Date
Email:		SSOW#:			Sample Date
Project Name:					Sample Date
Powerton CCR FAB					Sample Date
Site:					Sample Date
MWG - Powerton					Sample Date
Sample Identification - Client ID (Lab ID)					Sample Date
MW-02 (500-238774-1)	8/28/23	10:55	Water	X	X
MW-03 (500-238774-2)	8/28/23	11:28	Water	X	X
MW-04 (500-238774-3)	8/28/23	12:31	Water	X	X
MW-05 (500-238774-4)	8/29/23	08:50	Water	X	X
MW-01 (500-238774-5)	8/29/23	12:20	Water	X	X
MW-10 (500-238774-6)	8/29/23	13:32	Water	X	X
Duplicate (500-238774-7)	8/29/23	Central	Water	X	X
<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/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					
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements					
Empty Kit Relinquished by _____					
Relinquished by _____ Date/Time: 8/30/23 1510					
Relinquished by _____ Date/Time: _____					
Relinquished by _____ Date/Time: _____					
Custody Seals Intact: _____					
Cooler Temperature(s) °C and Other Remarks.					



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238774-1

Login Number: 238774

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

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.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	1.5,8.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238774-1

Login Number: 238774

List Number: 4

Creator: Costello, Mackenzie K

List Source: Eurofins Cedar Falls

List Creation: 08/31/23 12:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
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 FAB

Job ID: 500-238774-1

Client Sample ID: MW-02
Date Collected: 08/28/23 10:55
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 19:09
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 17:43
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400290	A6US	EET CF	09/21/23 14:31
Total/NA	Prep	7470A			399007	NFT2	EET CF	09/08/23 10:26
Total/NA	Analysis	7470A		1	399188	NFT2	EET CF	09/11/23 10:31
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:27
Total/NA	Analysis	SM 4500 CI- E		2	730408	MM	EET CHI	08/31/23 14:34
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 12:19
Total/NA	Analysis	SM 4500 SO4 E		2	730329	MM	EET CHI	08/30/23 14:49

Client Sample ID: MW-03
Date Collected: 08/28/23 11:28
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 19:44
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 17:49
Total/NA	Prep	7470A			399007	NFT2	EET CF	09/08/23 10:26
Total/NA	Analysis	7470A		1	399188	NFT2	EET CF	09/11/23 10:33
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:30
Total/NA	Analysis	SM 4500 CI- E		2	730408	MM	EET CHI	08/31/23 14:34
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 12:24
Total/NA	Analysis	SM 4500 SO4 E		2	730329	MM	EET CHI	08/30/23 15:09

Client Sample ID: MW-04
Date Collected: 08/28/23 12:31
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 19:48
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 17:52
Total/NA	Prep	7470A			399007	NFT2	EET CF	09/08/23 10:26
Total/NA	Analysis	7470A		1	399188	NFT2	EET CF	09/11/23 10:40
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:32
Total/NA	Analysis	SM 4500 CI- E		2	730408	MM	EET CHI	08/31/23 14:35
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 12:36
Total/NA	Analysis	SM 4500 SO4 E		5	730329	MM	EET CHI	08/30/23 15:09

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-238774-1

Client Sample ID: MW-05
Date Collected: 08/29/23 08:50
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 19:51
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 17:54
Total/NA	Prep	7470A			399007	NFT2	EET CF	09/08/23 10:26
Total/NA	Analysis	7470A		1	399188	NFT2	EET CF	09/11/23 10:46
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:35
Total/NA	Analysis	SM 4500 CI- E		2	731959	MM	EET CHI	09/12/23 17:05
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 12:50
Total/NA	Analysis	SM 4500 SO4 E		2	733315	TR	EET CHI	09/20/23 16:45

Client Sample ID: MW-01
Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 19:55
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 17:56
Total/NA	Prep	7470A			399007	NFT2	EET CF	09/08/23 10:26
Total/NA	Analysis	7470A		1	399188	NFT2	EET CF	09/11/23 10:48
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:38
Total/NA	Analysis	SM 4500 CI- E		2	731959	MM	EET CHI	09/12/23 17:04
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:05
Total/NA	Analysis	SM 4500 SO4 E		1	733315	TR	EET CHI	09/20/23 16:23

Client Sample ID: MW-10
Date Collected: 08/29/23 13:32
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 19:58
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 17:58
Total/NA	Prep	7470A			399007	NFT2	EET CF	09/08/23 10:26
Total/NA	Analysis	7470A		1	399188	NFT2	EET CF	09/11/23 10:51
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:40
Total/NA	Analysis	SM 4500 CI- E		2	731959	MM	EET CHI	09/12/23 17:05
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:10
Total/NA	Analysis	SM 4500 SO4 E		2	733315	TR	EET CHI	09/20/23 15:40

Lab Chronicle

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

Job ID: 500-238774-1

Client Sample ID: Duplicate

Lab Sample ID: 500-238774-7

Date Collected: 08/29/23 00:00

Matrix: Water

Date Received: 08/30/23 10:10

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	399821	DHM5	EET CF	09/15/23 20:02
Total Recoverable	Prep	3005A			398373	KCK5	EET CF	09/01/23 09:00
Total Recoverable	Analysis	6020B		1	400043	A6US	EET CF	09/19/23 18:14
Total/NA	Prep	7470A			399007	NFT2	EET CF	09/08/23 10:26
Total/NA	Analysis	7470A		1	399188	NFT2	EET CF	09/11/23 10:53
Total/NA	Analysis	SM 2540C		1	730463	CLB	EET CHI	08/31/23 23:43
Total/NA	Analysis	SM 4500 Cl- E		2	731959	MM	EET CHI	09/12/23 17:04
Total/NA	Analysis	SM 4500 F C		1	731562	EH	EET CHI	09/10/23 13:15
Total/NA	Analysis	SM 4500 SO4 E		2	733315	TR	EET CHI	09/20/23 16:46

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

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 FAB

Job ID: 500-238774-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

Laboratory: Eurofins Cedar Falls

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Colorado	Petroleum Storage Tank Program	IA100001 (OR)	09-29-23
Georgia	State	IA100001 (OR)	09-29-23
Illinois	NELAP	200024	11-29-23
Iowa	State	007	12-01-23
Kansas	NELAP	E-10341	01-31-24
Minnesota	NELAP	019-999-319	12-31-23
Minnesota (Petrofund)	State	3349	01-18-24
North Dakota	State	R-186	09-29-23
Oregon	NELAP	IA100001	09-29-23



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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/28/2023 8:17:04 AM

JOB DESCRIPTION

Powerton CCR FAB

JOB NUMBER

500-238774-2

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
9/28/2023 8:17:04 AM

Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570



Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Client Sample Results	7
Definitions	14
QC Association	15
QC Sample Results	16
Chain of Custody	18
Receipt Checklists	24
Chronicle	27
Certification Summary	29
Tracer Carrier Summary	30

Case Narrative

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

Job ID: 500-238774-2

Job ID: 500-238774-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-238774-2

Receipt

The samples were received on 8/29/2023 10:10 AM. 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 1.5° C and 8.4° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-05 (500-238774-4), MW-01 (500-238774-5), MW-10 (500-238774-6) and Duplicate (500-238774-7).

RAD

Method 903.0: Radium-226 batch 626180

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-02 (500-238774-1), MW-03 (500-238774-2), MW-04 (500-238774-3), (LCS 160-626180/2-A) and (MB 160-626180/1-A)

Method 903.0: Radium-226 batch 626333

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-05 (500-238774-4), MW-01 (500-238774-5), MW-10 (500-238774-6), Duplicate (500-238774-7), (LCS 160-626333/2-A), (MB 160-626333/1-A), (500-238830-E-4-A) and (500-238830-F-4-A DU)

Method 904.0: Radium-228 prep batch 160-626182:

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-02 (500-238774-1), MW-03 (500-238774-2), MW-04 (500-238774-3), (LCS 160-626182/2-A), (MB 160-626182/1-A), (500-238579-T-53-D), (500-238579-T-53-E MS) and (500-238579-T-53-F MSD)

Method 904.0: Radium-228 Prep Batch 160-626334:

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-05 (500-238774-4), MW-01 (500-238774-5), MW-10 (500-238774-6), Duplicate (500-238774-7), (500-238830-E-4-B) and (500-238830-F-4-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 FAB

Job ID: 500-238774-2

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

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Sample Summary

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

Job ID: 500-238774-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-238774-1	MW-02	Water	08/28/23 10:55	08/29/23 10:10
500-238774-2	MW-03	Water	08/28/23 11:28	08/29/23 10:10
500-238774-3	MW-04	Water	08/28/23 12:31	08/29/23 10:10
500-238774-4	MW-05	Water	08/29/23 08:50	08/30/23 10:10
500-238774-5	MW-01	Water	08/29/23 12:20	08/30/23 10:10
500-238774-6	MW-10	Water	08/29/23 13:32	08/30/23 10:10
500-238774-7	Duplicate	Water	08/29/23 00:00	08/30/23 10:10

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Client Sample Results

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

Job ID: 500-238774-2

Client Sample ID: MW-02
Date Collected: 08/28/23 10:55
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-1
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.236		0.128	0.129	1.00	0.163	pCi/L	08/31/23 11:10	09/22/23 14:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					08/31/23 11:10	09/22/23 14:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0793	U	0.390	0.390	1.00	0.742	pCi/L	08/31/23 11:15	09/18/23 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.1		30 - 110					08/31/23 11:15	09/18/23 12:39	1
Y Carrier	80.0		30 - 110					08/31/23 11:15	09/18/23 12:39	1

Method: TAL-STL 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	0.156	U	0.410	0.411	5.00	0.742	pCi/L		09/26/23 15:36	1

Client Sample Results

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

Job ID: 500-238774-2

Client Sample ID: MW-03
Date Collected: 08/28/23 11:28
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-2
Matrix: Water

Method: EPA 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		0.122	0.123	1.00	0.172	pCi/L	08/31/23 11:10	09/22/23 14:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/31/23 11:10	09/22/23 14:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.217	U	0.393	0.393	1.00	0.674	pCi/L	08/31/23 11:15	09/18/23 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					08/31/23 11:15	09/18/23 12:39	1
Y Carrier	78.1		30 - 110					08/31/23 11:15	09/18/23 12:39	1

Method: TAL-STL 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	0.404	U	0.412	0.412	5.00	0.674	pCi/L		09/26/23 15:36	1

Client Sample Results

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

Job ID: 500-238774-2

Client Sample ID: MW-04

Lab Sample ID: 500-238774-3

Date Collected: 08/28/23 12:31

Matrix: Water

Date Received: 08/29/23 10:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.171		0.101	0.102	1.00	0.125	pCi/L	08/31/23 11:10	09/22/23 14:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					08/31/23 11:10	09/22/23 14:51	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.474	U	0.422	0.424	1.00	0.669	pCi/L	08/31/23 11:15	09/18/23 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.3		30 - 110					08/31/23 11:15	09/18/23 12:39	1
Y Carrier	84.5		30 - 110					08/31/23 11:15	09/18/23 12:39	1

Method: TAL-STL 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	U	0.434	0.436	5.00	0.669	pCi/L		09/26/23 15:36	1

Client Sample Results

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

Job ID: 500-238774-2

Client Sample ID: MW-05

Lab Sample ID: 500-238774-4

Date Collected: 08/29/23 08:50

Matrix: Water

Date Received: 08/30/23 10:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0257	U	0.0601	0.0601	1.00	0.112	pCi/L	09/01/23 09:04	09/26/23 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					09/01/23 09:04	09/26/23 09:10	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.792		0.416	0.422	1.00	0.595	pCi/L	09/01/23 09:09	09/21/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					09/01/23 09:09	09/21/23 12:05	1
Y Carrier	87.1		30 - 110					09/01/23 09:09	09/21/23 12:05	1

Method: TAL-STL 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	0.817		0.420	0.426	5.00	0.595	pCi/L		09/27/23 17:03	1

Client Sample Results

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

Job ID: 500-238774-2

Client Sample ID: MW-01

Lab Sample ID: 500-238774-5

Date Collected: 08/29/23 12:20

Matrix: Water

Date Received: 08/30/23 10:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0453	U	0.0714	0.0715	1.00	0.124	pCi/L	09/01/23 09:04	09/26/23 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		30 - 110					09/01/23 09:04	09/26/23 09:10	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0702	U	0.300	0.301	1.00	0.574	pCi/L	09/01/23 09:09	09/21/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		30 - 110					09/01/23 09:09	09/21/23 12:05	1
Y Carrier	88.6		30 - 110					09/01/23 09:09	09/21/23 12:05	1

Method: TAL-STL 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	-0.0249	U	0.308	0.309	5.00	0.574	pCi/L		09/27/23 17:03	1

Client Sample Results

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

Job ID: 500-238774-2

Client Sample ID: MW-10
Date Collected: 08/29/23 13:32
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.325		0.139	0.142	1.00	0.146	pCi/L	09/01/23 09:04	09/26/23 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					09/01/23 09:04	09/26/23 09:10	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.241	U	0.392	0.392	1.00	0.667	pCi/L	09/01/23 09:09	09/21/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					09/01/23 09:09	09/21/23 12:05	1
Y Carrier	92.3		30 - 110					09/01/23 09:09	09/21/23 12:05	1

Method: TAL-STL 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	0.565	U	0.416	0.417	5.00	0.667	pCi/L		09/27/23 17:03	1

Client Sample Results

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

Job ID: 500-238774-2

Client Sample ID: Duplicate
Date Collected: 08/29/23 00:00
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.258		0.135	0.137	1.00	0.161	pCi/L	09/01/23 09:04	09/26/23 09:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					09/01/23 09:04	09/26/23 09:10	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.272	U	0.426	0.427	1.00	0.724	pCi/L	09/01/23 09:09	09/21/23 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.5		30 - 110					09/01/23 09:09	09/21/23 12:05	1
Y Carrier	87.1		30 - 110					09/01/23 09:09	09/21/23 12:05	1

Method: TAL-STL 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	0.530	U	0.447	0.448	5.00	0.724	pCi/L		09/27/23 17:03	1

Definitions/Glossary

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

Job ID: 500-238774-2

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 FAB

Job ID: 500-238774-2

Rad

Prep Batch: 626180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total/NA	Water	PrecSep-21	
500-238774-2	MW-03	Total/NA	Water	PrecSep-21	
500-238774-3	MW-04	Total/NA	Water	PrecSep-21	
MB 160-626180/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626180/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 626182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-1	MW-02	Total/NA	Water	PrecSep_0	
500-238774-2	MW-03	Total/NA	Water	PrecSep_0	
500-238774-3	MW-04	Total/NA	Water	PrecSep_0	
MB 160-626182/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626182/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 626333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-4	MW-05	Total/NA	Water	PrecSep-21	
500-238774-5	MW-01	Total/NA	Water	PrecSep-21	
500-238774-6	MW-10	Total/NA	Water	PrecSep-21	
500-238774-7	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-626333/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-626333/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 626334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-238774-4	MW-05	Total/NA	Water	PrecSep_0	
500-238774-5	MW-01	Total/NA	Water	PrecSep_0	
500-238774-6	MW-10	Total/NA	Water	PrecSep_0	
500-238774-7	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-626334/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-626334/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-238774-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-626180/1-A
Matrix: Water
Analysis Batch: 629275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626180

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02184	U	0.0535	0.0535	1.00	0.128	pCi/L	08/31/23 11:10	09/22/23 14:34	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	30 - 110			08/31/23 11:10	09/22/23 14:34	1		
	94.8									

Lab Sample ID: LCS 160-626180/2-A
Matrix: Water
Analysis Batch: 629275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626180

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.99		1.18	1.00	0.129	pCi/L	97	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier	30 - 110						
	94.0								

Lab Sample ID: MB 160-626333/1-A
Matrix: Water
Analysis Batch: 629618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626333

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04398	U	0.0696	0.0697	1.00	0.121	pCi/L	09/01/23 09:04	09/26/23 08:59	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	30 - 110			09/01/23 09:04	09/26/23 08:59	1		
	89.1									

Lab Sample ID: LCS 160-626333/2-A
Matrix: Water
Analysis Batch: 629620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626333

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.26		1.10	1.00	0.144	pCi/L	91	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	%Yield	Qualifier	30 - 110						
	93.8								

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-626182/1-A
Matrix: Water
Analysis Batch: 628632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626182

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.08319	U	0.303	0.304	1.00	0.545	pCi/L	08/31/23 11:15	09/18/23 12:29	1

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QC Sample Results

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

Job ID: 500-238774-2

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

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	94.8		30 - 110	08/31/23 11:15	09/18/23 12:29	1
Y Carrier	90.8		30 - 110	08/31/23 11:15	09/18/23 12:29	1

Lab Sample ID: LCS 160-626182/2-A
Matrix: Water
Analysis Batch: 628632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626182

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	94.0		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: MB 160-626334/1-A
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 626334

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	89.1		30 - 110	09/01/23 09:09	09/21/23 11:55	1
Y Carrier	90.1		30 - 110	09/01/23 09:09	09/21/23 11:55	1

Lab Sample ID: LCS 160-626334/2-A
Matrix: Water
Analysis Batch: 629177

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 626334

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.8		30 - 110
Y Carrier	88.6		30 - 110

Eurofins Chicago

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

Chain of Custody Record

MKE 232

eurofins | Environment Testing

Client Information		Sampler <i>Jack Misner</i>	Lab PM Mockler, Diana J	Carrier Tracking No(s)	COC No: 500-114458-46459 1																										
Client Contact: Kaelyn Sperle		Phone <i>202-622-1143</i>	E-Mail Diana.Mockler@et.eurofinsus.com	State of Origin <i>IL</i>	Page: Page 1 of 1																										
Company KPRG and Associates, Inc.		Analysis Requested			Job #: <i>500-238774</i>																										
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested <i>Standard</i>	<table border="1"> <tr> <td>Field Filtered Sample (Yes/No)</td> <td>903.0 - Standard Target List</td> <td>Ra28Ra228, GFPC - Local Method</td> <td>904.0 - Standard Target List</td> <td>6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E</td> </tr> </table>			Field Filtered Sample (Yes/No)	903.0 - Standard Target List	Ra28Ra228, GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E																				
Field Filtered Sample (Yes/No)	903.0 - Standard Target List	Ra28Ra228, GFPC - Local Method				904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E																							
City Brookfield		TAT Requested (days) <i>Standard</i>																													
State/Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																													
Phone: 262-781-0475(Tel)		PO #: 4502125100																													
Email: kaelyns@kprginc.com		WVO #	Preservation Codes																												
Project Name: Powerton CCR <i>FAB</i>		Project #: 50011612	<table border="0"> <tr> <td>A - HCL</td> <td>M - Hexane</td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> </tr> <tr> <td>C - Zn Acetate</td> <td>O - AsNaO2</td> </tr> <tr> <td>D - Nitric Acid</td> <td>P - Na2O4S</td> </tr> <tr> <td>E - NaHSO4</td> <td>Q - Na2SO3</td> </tr> <tr> <td>F - MeOH</td> <td>R - Na2S2O3</td> </tr> <tr> <td>G - Amchlor</td> <td>S - H2SO4</td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>T - TSP Dodecahydrate</td> </tr> <tr> <td>I - Ice</td> <td>U - Acetone</td> </tr> <tr> <td>J - DI Water</td> <td>V - MCAA</td> </tr> <tr> <td>K - EDTA</td> <td>W - pH 4-5</td> </tr> <tr> <td>L - EDA</td> <td>Y - Trizma</td> </tr> <tr> <td></td> <td>Z - other (specify)</td> </tr> </table>			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	Y - Trizma		Z - other (specify)
A - HCL	M - Hexane																														
B - NaOH	N - None																														
C - Zn Acetate	O - AsNaO2																														
D - Nitric Acid	P - Na2O4S																														
E - NaHSO4	Q - Na2SO3																														
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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)																														
Site: Illinois		SSOW#:	Other:																												
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes/No)	Perform MS/MSD (Yes or No)	903.0 - Standard Target List	Ra28Ra228, GFPC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of Containers	Special Instructions/Note:																	
<i>1</i>		<i>8/28/23</i>	<i>1055</i>	<i>G</i>	Water	<i>NN</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>5</i>																		
<i>2</i>		<i>8/28/23</i>	<i>1128</i>	<i>G</i>	Water	<i>NN</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>5</i>																		
<i>3</i>		<i>8/28/23</i>	<i>1231</i>	<i>G</i>	Water	<i>NN</i>		<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>5</i>																		
					Water																										
					Water																										
					Water																										
					Water																										
					Water																										
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Radioactive <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																										
Deliverable Requested I, II III IV Other (specify)					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																										
					Special Instructions/QC Requirements <i>Non-hazardous</i>																										
Empty Kit Relinquished by		Date	Time	Method of Shipment:																											
Relinquished by <i>John Misner</i>		Date/Time: <i>8/28/23 1610</i>	Company <i>KPRG</i>	Received by <i>John Sperle</i>			Date/Time: <i>8/29/23 1010</i>	Company <i>EPTA</i>																							
Relinquished by		Date/Time:	Company	Received by			Date/Time	Company																							
Relinquished by		Date/Time:	Company	Received by			Date/Time	Company																							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No			Cooler Temperature(s) °C and Other Remarks <i>1.8-7/1.5</i>																										

Eurofins Chicago

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

Chain of Custody Record

MKE 232

eurofins | Environment Testing

Client Information		Sampler Kaelyn Sperle	Lab PM Mockler, Diana J	Carrier Tracking No(s)	COC No: 500-114458-46459 1														
Client Contact Kaelyn Sperle		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.		PWSID:	Analysis Requested		Job # 500-238774														
Address 14665 West Lisbon Road, Suite 1A		Due Date Requested Standard	<table border="1"> <tr><td>Field Filtered Sample (Yes or No)</td><td></td></tr> <tr><td>Portable MS/MS (Yes or No)</td><td></td></tr> <tr><td>903.0 - Standard Target List</td><td></td></tr> <tr><td>Re226Ra228_GFPCC - Local Method</td><td></td></tr> <tr><td>904.0 - Standard Target List</td><td></td></tr> <tr><td>6020A, 7470A</td><td></td></tr> <tr><td>2540C, 4500_F_C, SIM4500_CL_E, SIM4500_SO4_E</td><td></td></tr> </table>		Field Filtered Sample (Yes or No)		Portable MS/MS (Yes or No)		903.0 - Standard Target List		Re226Ra228_GFPCC - Local Method		904.0 - Standard Target List		6020A, 7470A		2540C, 4500_F_C, SIM4500_CL_E, SIM4500_SO4_E		Preservation Codes
Field Filtered Sample (Yes or No)																			
Portable MS/MS (Yes or No)																			
903.0 - Standard Target List																			
Re226Ra228_GFPCC - Local Method																			
904.0 - Standard Target List																			
6020A, 7470A																			
2540C, 4500_F_C, SIM4500_CL_E, SIM4500_SO4_E																			
City Brookfield		TAT Requested (days) Standard	A - HCL	M - Hexane															
State, Zip WI, 53005		Compliance Project* <input type="checkbox"/> Yes <input type="checkbox"/> No	B - NaOH	N - None															
Phone 262-781-0475(Tel)		PO #: 4502125100	C - Zn Acetate	O - As/NaO2															
Email kaelyns@kprginc.com		WO #	D - Nitric Acid	P - Na2O4S															
Project Name: Powerton CCR FAB		Project #: 50011612	E - NaHSO4	Q - Na2SO3															
Site: Illinois		SSOW#:	F - MeOH	R - Na2SO4															
			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 - EDTA	Y - Trizma															
				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)	Portable MS/MS (Yes or No)	903.0 - Standard Target List	Re226Ra228_GFPCC - Local Method	904.0 - Standard Target List	6020A, 7470A	2540C, 4500_F_C, SIM4500_CL_E, SIM4500_SO4_E	Total Number of Containers	Special Instructions/Note:
MW-05	8/29/23	0850	G	Water	N	N	X	X	X	X	X	5	
MW-01	8/29/23	1220		Water									
MW-10	8/29/23	1332		Water									
Duplicate	8/29/23	-		Water									
				Water									
				Water									
				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	
Empty Kit Relinquished by	Date	Time	Method of Shipment
Relinquished by Kaelyn Sperle	Date/Time: 8/29/23/1720	Company KPRG	Received by Dian Mockler
Relinquished by	Date/Time:	Company	Date/Time: 8/30/23 1010
Relinquished by	Date/Time:	Company	Date/Time
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks 7.9 → 8.4	

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

SHIP DATE: 28AUG23
ACTWGT: 59.40 LB
CAD: 6994780/SSFE2422
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

Part # 156297-426/MSD28RGRP 04/24

TO EUROFINS

2417 BOND ST.



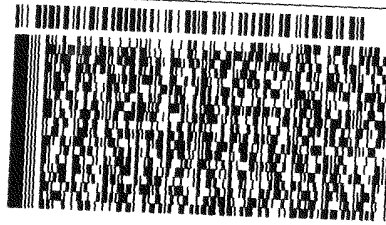
UNIVERSITY PARK IL 60484

500-238774 Waybi

(666) 666-6666
INU:
PO:

REF

DEPT:



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REL#
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MASTER

TUE - 29 AUG 10:30A
PRIORITY OVERNIGHT

XN JOTA

AHS
60484
IL-US ORD



7.9.25

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

WESTMONT, IL 60559
UNITED STATES US

TO EUROFINS CHICAGO

2417 BOND ST.

UNIVERSITY PARK IL 60484

(666) 666-6666
YNU:
PO:

REF:

DEPT:



FedEx
Express



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Part # 156297-438-AH028-690 04/24

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Chain of Custody Record



Client Information (Sub Contract Lab)		Smaller: Mockler, Diana J		Lab PM: Mockler, Diana J		COC No: 500-178416-1	
Client Contact: Diana Mockler		Phone:		E-Mail: Diana.Mockler@et.eurofins.com		Page: Page 1 of 1	
Shipping/Receiving: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, City: Earth City, State, Zip: MO, 63045		Accreditations Required (See note): NELAP - Illinois		Job #: 500-238774-1	
Due Date Requested: 9/19/2023		TAT Requested (days):		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecanehydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)			
PO #:		WO #:		Project #:			
50011612		50011612		50011612			
SSOW#:		Site: MWG - Powerlon		Site: MWG - Powerlon			
Sample Identification - Client ID (Lab ID)				Analysis Requested		Special Instructions/Note:	
Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	904.0/PreSep 21 Standard Target List	904.0/PreSep 0 Standard Target List
8/28/23	10:55 Central	Water	Water	X	X	X	X
8/28/23	11:28 Central	Water	Water	X	X	X	X
8/28/23	12:31 Central	Water	Water	X	X	X	X
				Total Number of containers		3	
				Total Number of containers		3	
				Total Number of containers		3	

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: *Stephanie Henderson* Date/Time: *8/19/23 1500* Company: *EET*

Relinquished by: *Barbara Sharkey - Samplers* Date/Time: *8/30/23 0900* Company: *E-TAST*

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

Custody Seals Intact: Yes No Custody Seal No.: _____

Method of Shipment: Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J	Sampler:	Lab PM: Mockler, Diana J	Lab No: 500-178471.1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@eurofins.com	Phone:	E-Mail: Diana.Mockler@eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Illinois	
Address: 13715 Rider Trail North, Earth City, MO, 63045		Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Job #: 500-238774-2	
E-mail:		PO #:		Preservation Codes:	
Project #: 50011612		WO #:		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Zn Acetate R - Niirc Acid S - NaHSO4 T - MeOH U - Amchlor V - Ascorbic Acid W - Ice X - DI Water Y - pH 4-5 Z - EDTA L - EDA Other:	
Site: MWG - Powerton		Project Name: Powerton CCR FAB		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date		Total Number of Containers	
MW-05 (500-238774-4)	8/29/23	08:50 Central	Water	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-01 (500-238774-5)	8/29/23	12:20 Central	Water	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
MW-10 (500-238774-6)	8/29/23	13:32 Central	Water	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
Duplicate (500-238774-7)	8/29/23	Central	Water	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no
Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		903.0/PrecSep_21 Standard Target List	
904.0/PrecSep_0 Standard Target List		Ra226Ra228_GFPc		904.0/PrecSep_0 Standard Target List	
Analysis Requested		Matrix (W=water, S=solid, O=organics, B=base, A=Alk)		Special Instructions/Note:	
Due Date Requested: 9/19/2023		Sample Type (C=comp, G=grab)		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	
TAT Requested (days):		Preservation Code:		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	
PO #:		Sample Time		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	
WO #:		Sample Date		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	
Project #: 50011612		Sample Time		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	
SSOW#:		Sample Date		Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	

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 Eurofins Chicago.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: 8/30/23 1510
 Relinquished by: *[Signature]* Date: 8/30/23 1510
 Relinquished by: *[Signature]* Date: 8/30/23 1510
 Relinquished by: *[Signature]* Date: 8/30/23 1510
 Custody Seals Intact: Yes No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238774-2

Login Number: 238774

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.	False	
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	1.5,8.4
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: 500-238774-2

Login Number: 238774

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 08/30/23 01:00 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	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-238774-2

Login Number: 238774

List Number: 3

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/31/23 12:07 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 FAB

Job ID: 500-238774-2

Client Sample ID: MW-02
Date Collected: 08/28/23 10:55
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626180	KAC	EET SL	08/31/23 11:10
Total/NA	Analysis	903.0		1	629280	SCB	EET SL	09/22/23 14:51
Total/NA	Prep	PrecSep_0			626182	KAC	EET SL	08/31/23 11:15
Total/NA	Analysis	904.0		1	628634	SCB	EET SL	09/18/23 12:39
Total/NA	Analysis	Ra226_Ra228		1	629683	SCB	EET SL	09/26/23 15:36

Client Sample ID: MW-03
Date Collected: 08/28/23 11:28
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626180	KAC	EET SL	08/31/23 11:10
Total/NA	Analysis	903.0		1	629280	SCB	EET SL	09/22/23 14:51
Total/NA	Prep	PrecSep_0			626182	KAC	EET SL	08/31/23 11:15
Total/NA	Analysis	904.0		1	628634	SCB	EET SL	09/18/23 12:39
Total/NA	Analysis	Ra226_Ra228		1	629683	SCB	EET SL	09/26/23 15:36

Client Sample ID: MW-04
Date Collected: 08/28/23 12:31
Date Received: 08/29/23 10:10

Lab Sample ID: 500-238774-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626180	KAC	EET SL	08/31/23 11:10
Total/NA	Analysis	903.0		1	629280	SCB	EET SL	09/22/23 14:51
Total/NA	Prep	PrecSep_0			626182	KAC	EET SL	08/31/23 11:15
Total/NA	Analysis	904.0		1	628634	SCB	EET SL	09/18/23 12:39
Total/NA	Analysis	Ra226_Ra228		1	629683	SCB	EET SL	09/26/23 15:36

Client Sample ID: MW-05
Date Collected: 08/29/23 08:50
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:10
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629183	FLC	EET SL	09/21/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Lab Chronicle

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

Job ID: 500-238774-2

Client Sample ID: MW-01
Date Collected: 08/29/23 12:20
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:10
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629183	FLC	EET SL	09/21/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: MW-10
Date Collected: 08/29/23 13:32
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:10
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629183	FLC	EET SL	09/21/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

Client Sample ID: Duplicate
Date Collected: 08/29/23 00:00
Date Received: 08/30/23 10:10

Lab Sample ID: 500-238774-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			626333	KAC	EET SL	09/01/23 09:04
Total/NA	Analysis	903.0		1	629621	FLC	EET SL	09/26/23 09:10
Total/NA	Prep	PrecSep_0			626334	KAC	EET SL	09/01/23 09:09
Total/NA	Analysis	904.0		1	629183	FLC	EET SL	09/21/23 12:05
Total/NA	Analysis	Ra226_Ra228		1	629878	SCB	EET SL	09/27/23 17:03

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 FAB

Job ID: 500-238774-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

- 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 FAB

Job ID: 500-238774-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-238774-1	MW-02	87.1
500-238774-2	MW-03	96.5
500-238774-3	MW-04	89.3
500-238774-4	MW-05	92.3
500-238774-5	MW-01	93.8
500-238774-6	MW-10	102
500-238774-7	Duplicate	93.5
LCS 160-626180/2-A	Lab Control Sample	94.0
LCS 160-626333/2-A	Lab Control Sample	93.8
MB 160-626180/1-A	Method Blank	94.8
MB 160-626333/1-A	Method Blank	89.1

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 (30-110)	Y (30-110)
500-238774-1	MW-02	87.1	80.0
500-238774-2	MW-03	96.5	78.1
500-238774-3	MW-04	89.3	84.5
500-238774-4	MW-05	92.3	87.1
500-238774-5	MW-01	93.8	88.6
500-238774-6	MW-10	102	92.3
500-238774-7	Duplicate	93.5	87.1
LCS 160-626182/2-A	Lab Control Sample	94.0	81.5
LCS 160-626334/2-A	Lab Control Sample	93.8	88.6
MB 160-626182/1-A	Method Blank	94.8	90.8
MB 160-626334/1-A	Method Blank	89.1	90.1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	8/29/23
Sample Name	MW-01	Start Time	1205	
Condition of Well	good			
Water Level	28.912	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	5 gts	WL at Sample Time	28.93	
Method of Sample	Low flow bladder	Sample Characteristics		
Sample Analysis	CCA, CCR (FAB, ABB/ASB)	Sample Time	1220	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1207	28.92	7.04	15.3	.726	6.83	39.0	5.35
1210	-	7.00	14.6	.732	5.53	43.6	6.30
1213	-	6.99	14.4	.733	5.09	45.9	5.37
1216	28.93	6.98	14.3	.729	4.87	47.2	4.40

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	8/28/23
Sample Name	MW-02	Start Time	1040	
Condition of Well	good			
Water Level	31.25	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	5 gts	WL at Sample Time	31.25	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (FAB)	Sample Time	1055	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1042	31.25	7.25	13.6	.671	8.28	113.0	3.01
1045	—	7.15	13.5	.690	3.89	105.3	2.33
1048	—	7.15	13.4	.690	2.67	99.7	1.94
1051	—	7.17	13.4	.692	1.89	93.0	1.80
1054	31.25	7.17	13.3	.692	1.62	89.4	1.70

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	8/28/23
Sample Name	MW-03	Start Time	1128	
Condition of Well	good			
Water Level	31.29	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear colorless	
Volume Removed	4gts	WL at Sample Time	31.29	
Method of Sample	Low flow bladder	Sample Characteristics	clear colorless	
Sample Analysis	CCA, CCR, (FAB)	Sample Time	1143	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1130	31.29	7.48	13.3	.608	8.67	70.0	1.51
1133	1	7.31	12.2	.623	5.63	66.5	1.83
1136	1	7.29	12.3	.624	4.38	60.3	1.70
1139	31.29	7.28	12.2	.624	3.80	54.6	1.45

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	8/28/23
Sample Name	MW-04	Start Time	1231	
Condition of Well	good			
Water Level	30.60	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Sl. cloudy	
Volume Removed	4 gts	WL at Sample Time	30.60	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (FAB)	Sample Time	1246	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1233	30.60	7.09	15.6	.746	6.09	70.4	66.17
1236	-	7.04	15.1	.778	4.99	71.6	82.74
1239	-	7.02	14.9	.780	3.87	71.1	14.03
1242	30.60	7.02	15.1	.780	3.96	70.9	5.59

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	8/28/23
Sample Name	MW-05	Start Time	1319	
Condition of Well	good			
Water Level	27.46	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	1 qt	WL at Sample Time	27.35	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (FAB)	Sample Time	1347 8/29/23/0850	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1334	27.46	7.06	20.5	.882	4.59	41.6	1.20
1337	-	7.00	20.9	.883	4.41	60.5	1.22
1340	-	6.97	17.9	.883	3.89	68.7	1.60
1343	27.35	6.99	18.2	.884	3.66	70.6	1.50

SAMPLING NOTES: ~~Took time for mp50 to work & begin purging~~
 Had to pause before sampling to trade broken MP50 - sampled 8/29
 - purged before sampling

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	8/29/25
Sample Name	MW-10	Start Time	1316	
Condition of Well	good			
Water Level	20.41	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy Brown	
Volume Removed	5qtz	WL at Sample Time	20.41	
Method of Sample	Low flow bladder	Sample Characteristics	clear w gray tint	
Sample Analysis	CCA, CCR (FAB)	Sample Time	1332	
Water Quality Meter	YSI Pro Dss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1319	20.41	7.13	14.7	.723	6.95	32.0	14.82
1322	-	7.00	13.9	.661	3.12	36.2	45.67
1325	-	7.00	13.8	.657	2.15	36.7	44.49
1328	20.41	7.00	13.7	.657	1.54	36.9	31.79

SAMPLING NOTES:

CCR FAB duplicate

Sampler Name and Company:

KPRG and Associates

KLS