

DATA SUMMARY POSTING

Station: Midwest Generation Powerton Generating Station

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

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 4th 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. Ash Bypass Basin Ash Surge Basin.

Well	Date	Turbidity (NTU)
MW-01	2/23/2021	78.20
	4/9/2021	6.96
	5/11/2021	3.24
	6/2/2021	3.80
	6/28/2021	4.30
	7/19/2021	4.88
	8/24/2021	3.34
	9/30/2021	3.04
	11/30/2021	5.43
	2/9/2022	11.5
	6/7/2022	3.63
	8/30/2022	4.73
	11/15/2022	3.90
	2/22/2023	4.54
5/17/2023	4.33	
8/29/2023	4.40	
11/7/2023	2.93	
MW-09	2/24/2021	16.9
	4/9/2021	5.73
	5/13/2021	0.49
	6/2/2021	2.37
	6/29/2021	4.53
	7/19/2021	6.12
	8/25/2021	16.65
	9/30/2021	3.2
	12/1/2021	0.0
	2/10/2022	0.0
	6/8/2022	6.93
	8/31/2022	4.95
	11/15/2022	1.82
	2/23/2023	3.22
5/16/2023	15.52	
8/30/2023	1.64	
11/8/2023	3.10	
MW-19	2/22/2021	0.56
	4/9/2021	4.25
	5/10/2021	1.80
	6/2/2021	5.77
	6/29/2021	8.79
	7/19/2021	7.30
	8/26/2021	30.91
	9/30/2021	2.92
	12/1/2021	0.0
	2/7/2022	3.54
	6/6/2022	2.35
	8/30/2022	3.56
	11/16/2022	2.02
	2/21/2023	2.13
5/18/2023	2.25	
8/29/2023	1.28	
11/8/2023	2.55	
MW-08	2/23/2021	47.30
	4/9/2021	23.05
	5/11/2021	8.93
	6/3/2021	11.11
	6/29/2021	5.48
	7/19/2021	6.86
	8/25/2021	6.80
	9/30/2021	5.01
	12/1/2021	5.01
	2/10/2022	14.98
	6/8/2022	8.65
	8/30/2022	9.75
	11/15/2022	12.65
	2/22/2023	4.12
5/17/2023	17.75	
8/29/2023	8.43	
11/7/2023	4.77	

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

Well	Date	Turbidity (NTU)
MW-11	2/25/2021	35.10
	4/9/2021	41.53
	5/13/2021	14.70
	6/3/2021	14.92
	6/29/2021	40.48
	7/19/2021	25.73
	8/25/2021	55.39
	9/30/2021	4.06
	12/1/2021	2.48
	2/10/2022	9.29
	6/8/2022	77.21
	8/31/2022	66.8
	11/15/2022	36.1
	2/23/2023	14.07
5/16/2023	10.18	
8/30/2023	44.6	
11/8/2023	19.15	
MW-12	2/25/2021	26.50
	4/9/2021	66.11
	5/13/2021	5.17
	6/3/2021	106.47
	6/29/2021	21.40
	7/19/2021	22.70
	8/25/2021	12.62
	9/30/2021	18.66
	12/1/2021	29.27
	2/10/2022	7.08
	6/8/2022	57.5
	8/31/2022	703.1
	11/15/2022	335.9
	2/23/2023	18.01
5/16/2023	21.37	
8/30/2023	104.06	
11/8/2023	33.77	
MW-15	2/24/2021	64.90
	4/9/2021	16.80
	5/12/2021	16.45
	6/3/2021	7.85
	6/29/2021	6.58
	7/20/2021	5.82
	8/23/2021	4.28
	10/1/2021	13.13
	11/29/2021	12.35
	2/9/2022	9.38
	6/8/2022	10.32
	8/31/2022	28.7
	11/16/2022	55.82
	2/23/2023	21.36
5/17/2023	13.90	
8/30/2023	34.65	
11/6/2023	9.00	
MW-17	2/24/2021	42.00
	4/8/2021	17.10
	5/12/2021	10.90
	6/3/2021	38.15
	6/28/2021	29.15
	7/20/2021	16.38
	8/23/2021	26.51
	10/1/2021	21.26
	11/29/2021	8.86
	2/7/2022	11.19
	6/8/2022	41.49
	8/31/2022	22.58
	11/16/2022	116.69
	2/23/2023	20.65
5/18/2023	9.92	
8/30/2023	3.56	
11/6/2023	6.02	
MW-18	2/22/2021	3.40
	4/9/2021	4.62
	5/10/2021	2.28
	6/3/2021	2.38
	6/29/2021	3.96
	7/19/2021	5.19
	8/26/2021	7.96
	9/30/2021	37.94
	12/1/2021	5.88
	2/8/2022	39.3
	6/6/2022	2.73
	8/30/2022	5.66
	11/16/2022	28.47
	2/21/2023	17.88
5/18/2023	3.04	
8/29/2023	10.04	
11/6/2023	6.02	

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

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JOB DESCRIPTION

Powerton CCR ABB/ASB

JOB NUMBER

500-242244-1

Eurofins Chicago

Job Notes

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Case Narrative

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

Job ID: 500-242244-1

Job ID: 500-242244-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-242244-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/8/2023 9:55 AM and 11/9/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.0°C, 1.2°C and 1.5°C

Receipt Exceptions

The collection time for sample #4 on the chain of custody (COC) is 1005. The container labe has 1022. Logged in per COC.

Metals

Method 6020B: The initial low level calibration verification (ICVL) result for batch 744671 was above the upper control limit for Be and Pb. Sample results were non-detects, and have been reported as qualified data.

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

General Chemistry

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 ABB/ASB

Job ID: 500-242244-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-242244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242244-1	MW-01	Water	11/07/23 15:54	11/08/23 09:55
500-242244-2	MW-08	Water	11/07/23 13:58	11/08/23 09:55
500-242244-3	MW-17	Water	11/06/23 15:33	11/08/23 09:55
500-242244-4	MW-09	Water	11/08/23 10:05	11/09/23 09:45
500-242244-5	MW-11	Water	11/08/23 12:22	11/09/23 09:45
500-242244-6	MW-12	Water	11/08/23 13:29	11/09/23 09:45
500-242244-7	MW-15	Water	11/06/23 14:21	11/09/23 09:45
500-242244-8	MW-18	Water	11/08/23 14:25	11/09/23 09:45
500-242244-9	MW-19	Water	11/08/23 11:20	11/09/23 09:45
500-242244-10	Duplicate	Water	11/08/23 00:00	11/09/23 09:45

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

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-01
Date Collected: 11/07/23 15:54
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:03	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 23:03	1
Barium	0.10		0.0025		mg/L		11/17/23 09:16	11/30/23 23:03	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:03	1
Boron	0.48		0.050		mg/L		11/17/23 09:16	12/06/23 17:27	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:03	1
Calcium	110		0.20		mg/L		11/17/23 09:16	12/01/23 14:32	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:11	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:32	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:03	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 14:32	1
Molybdenum	<0.0050		0.0050		mg/L		11/17/23 09:16	11/30/23 23:03	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:32	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		10		mg/L			11/09/23 01:59	1
Chloride (SM 4500 Cl- E)	45		4.0		mg/L			11/15/23 15:41	2
Fluoride (SM 4500 F C)	<0.10		0.10		mg/L			11/20/23 16:03	1
Sulfate (SM 4500 SO4 E)	63		10		mg/L			11/28/23 16:39	2

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-08
Date Collected: 11/07/23 13:58
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:14	1
Arsenic	0.0025		0.0010		mg/L		11/17/23 09:16	11/30/23 23:14	1
Barium	0.14		0.0025		mg/L		11/17/23 09:16	11/30/23 23:14	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:14	1
Boron	0.72		0.050		mg/L		11/17/23 09:16	12/06/23 17:31	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:14	1
Calcium	120		0.20		mg/L		11/17/23 09:16	12/01/23 14:35	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:15	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:35	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:14	1
Lithium	0.021		0.010		mg/L		11/17/23 09:16	12/01/23 14:35	1
Molybdenum	0.0071		0.0050		mg/L		11/17/23 09:16	11/30/23 23:14	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:35	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	790		10		mg/L			11/09/23 02:01	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			11/15/23 15:40	10
Fluoride (SM 4500 F C)	0.32		0.10		mg/L			11/20/23 16:08	1
Sulfate (SM 4500 SO4 E)	86		10		mg/L			11/28/23 11:29	2

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-17

Lab Sample ID: 500-242244-3

Date Collected: 11/06/23 15:33

Matrix: Water

Date Received: 11/08/23 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:18	1
Arsenic	0.0024		0.0010		mg/L		11/17/23 09:16	11/30/23 23:18	1
Barium	0.030		0.0025		mg/L		11/17/23 09:16	11/30/23 23:18	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:18	1
Boron	1.0		0.050		mg/L		11/17/23 09:16	12/06/23 17:34	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:18	1
Calcium	130		0.20		mg/L		11/17/23 09:16	12/01/23 14:39	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:18	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:39	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:18	1
Lithium	0.014		0.010		mg/L		11/17/23 09:16	12/01/23 14:39	1
Molybdenum	0.036		0.0050		mg/L		11/17/23 09:16	11/30/23 23:18	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:39	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1400		10		mg/L			11/09/23 02:04	1
Chloride (SM 4500 Cl- E)	190		20		mg/L			11/15/23 15:41	10
Fluoride (SM 4500 F C)	0.61		0.10		mg/L			11/20/23 16:13	1
Sulfate (SM 4500 SO4 E)	480		50		mg/L			11/28/23 11:30	10

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-09

Lab Sample ID: 500-242244-4

Date Collected: 11/08/23 10:05

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:21	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 23:21	1
Barium	0.049		0.0025		mg/L		11/17/23 09:16	11/30/23 23:21	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:21	1
Boron	3.2		0.50		mg/L		11/17/23 09:16	12/06/23 17:38	10
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:21	1
Calcium	87		0.20		mg/L		11/17/23 09:16	12/01/23 14:42	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:22	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:42	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:21	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 14:42	1
Molybdenum	0.024		0.0050		mg/L		11/17/23 09:16	11/30/23 23:21	1
Selenium	0.0062		0.0025		mg/L		11/17/23 09:16	12/01/23 14:42	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	570		10		mg/L			11/12/23 23:15	1
Chloride (SM 4500 Cl- E)	25		2.0		mg/L			11/15/23 15:19	1
Fluoride (SM 4500 F C)	0.14		0.10		mg/L			11/20/23 16:18	1
Sulfate (SM 4500 SO4 E)	130		50		mg/L			11/28/23 11:31	10

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-11
Date Collected: 11/08/23 12:22
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:25	1
Arsenic	0.015		0.0010		mg/L		11/17/23 09:16	11/30/23 23:25	1
Barium	0.26		0.0025		mg/L		11/17/23 09:16	11/30/23 23:25	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:25	1
Boron	2.2		0.50		mg/L		11/17/23 09:16	12/06/23 17:41	10
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:25	1
Calcium	110		0.20		mg/L		11/17/23 09:16	12/01/23 14:46	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:26	1
Cobalt	0.0018		0.0010		mg/L		11/17/23 09:16	12/01/23 14:46	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:25	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 14:46	1
Molybdenum	0.013		0.0050		mg/L		11/17/23 09:16	11/30/23 23:25	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:46	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	710		10		mg/L			11/12/23 23:18	1
Chloride (SM 4500 Cl- E)	63		4.0		mg/L			11/15/23 15:40	2
Fluoride (SM 4500 F C)	0.50		0.10		mg/L			11/20/23 16:44	1
Sulfate (SM 4500 SO4 E)	160		50		mg/L			11/28/23 11:30	10

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-12

Lab Sample ID: 500-242244-6

Date Collected: 11/08/23 13:29

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:29	1
Arsenic	0.026		0.0010		mg/L		11/17/23 09:16	11/30/23 23:29	1
Barium	0.074		0.0025		mg/L		11/17/23 09:16	11/30/23 23:29	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:29	1
Boron	0.52		0.050		mg/L		11/17/23 09:16	12/07/23 11:12	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:29	1
Calcium	90		0.20		mg/L		11/17/23 09:16	12/01/23 14:49	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:42	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:49	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:29	1
Lithium	0.011		0.010		mg/L		11/17/23 09:16	12/01/23 14:49	1
Molybdenum	0.020		0.0050		mg/L		11/17/23 09:16	11/30/23 23:29	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:49	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	770		10		mg/L			11/12/23 23:20	1
Chloride (SM 4500 Cl- E)	140		20		mg/L			11/15/23 15:39	10
Fluoride (SM 4500 F C)	0.49		0.10		mg/L			11/20/23 16:49	1
Sulfate (SM 4500 SO4 E)	230		50		mg/L			11/28/23 16:39	10

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-15

Lab Sample ID: 500-242244-7

Date Collected: 11/06/23 14:21

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:33	1
Arsenic	0.0033		0.0010		mg/L		11/17/23 09:16	11/30/23 23:33	1
Barium	0.060		0.0025		mg/L		11/17/23 09:16	11/30/23 23:33	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:33	1
Boron	1.0		0.050		mg/L		11/17/23 09:16	12/07/23 11:16	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:33	1
Calcium	190		0.20		mg/L		11/17/23 09:16	12/01/23 14:53	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:46	1
Cobalt	0.0019		0.0010		mg/L		11/17/23 09:16	12/01/23 14:53	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:33	1
Lithium	0.024		0.010		mg/L		11/17/23 09:16	12/01/23 14:53	1
Molybdenum	0.047		0.0050		mg/L		11/17/23 09:16	11/30/23 23:33	1
Selenium	0.0033		0.0025		mg/L		11/17/23 09:16	12/01/23 14:53	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			11/12/23 23:23	1
Chloride (SM 4500 Cl- E)	220		20		mg/L			11/15/23 15:39	10
Fluoride (SM 4500 F C)	0.44		0.10		mg/L			11/20/23 16:53	1
Sulfate (SM 4500 SO4 E)	440		50		mg/L			11/28/23 11:29	10

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-18

Lab Sample ID: 500-242244-8

Date Collected: 11/08/23 14:25

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:37	1
Arsenic	0.0015		0.0010		mg/L		11/17/23 09:16	11/30/23 23:37	1
Barium	0.16		0.0025		mg/L		11/17/23 09:16	11/30/23 23:37	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:37	1
Boron	0.68		0.050		mg/L		11/17/23 09:16	12/07/23 11:20	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:37	1
Calcium	120		0.20		mg/L		11/17/23 09:16	12/01/23 14:56	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:50	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 14:56	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:37	1
Lithium	0.011		0.010		mg/L		11/17/23 09:16	12/01/23 14:56	1
Molybdenum	<0.0050		0.0050		mg/L		11/17/23 09:16	11/30/23 23:37	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 14:56	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:37	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 09:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			11/12/23 23:26	1
Chloride (SM 4500 Cl- E)	160		20		mg/L			11/15/23 15:39	10
Fluoride (SM 4500 F C)	0.46		0.10		mg/L			11/20/23 16:58	1
Sulfate (SM 4500 SO4 E)	110		50		mg/L			11/28/23 11:51	10

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: MW-19

Lab Sample ID: 500-242244-9

Date Collected: 11/08/23 11:20

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:40	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 23:40	1
Barium	0.072		0.0025		mg/L		11/17/23 09:16	11/30/23 23:40	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:40	1
Boron	3.7		0.50		mg/L		11/17/23 09:16	12/07/23 11:23	10
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:40	1
Calcium	80		0.20		mg/L		11/17/23 09:16	12/01/23 15:10	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:54	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 15:10	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:40	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 15:10	1
Molybdenum	0.033		0.0050		mg/L		11/17/23 09:16	11/30/23 23:40	1
Selenium	0.0061		0.0025		mg/L		11/17/23 09:16	12/01/23 15:10	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 09:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			11/12/23 23:28	1
Chloride (SM 4500 Cl- E)	32		2.0		mg/L			11/15/23 15:20	1
Fluoride (SM 4500 F C)	0.16		0.10		mg/L			11/20/23 17:12	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			11/28/23 17:11	10

Client Sample Results

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

Job ID: 500-242244-1

Client Sample ID: Duplicate

Lab Sample ID: 500-242244-10

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 23:44	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 23:44	1
Barium	0.073		0.0025		mg/L		11/17/23 09:16	11/30/23 23:44	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 23:44	1
Boron	3.7		0.50		mg/L		11/17/23 09:16	12/07/23 11:27	10
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 23:44	1
Calcium	81		0.20		mg/L		11/17/23 09:16	12/01/23 15:13	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 16:57	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 15:13	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 23:44	1
Lithium	<0.010		0.010		mg/L		11/17/23 09:16	12/01/23 15:13	1
Molybdenum	0.034		0.0050		mg/L		11/17/23 09:16	11/30/23 23:44	1
Selenium	0.0068		0.0025		mg/L		11/17/23 09:16	12/01/23 15:13	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 23:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	610		10		mg/L			11/12/23 23:31	1
Chloride (SM 4500 Cl- E)	33		2.0		mg/L			11/15/23 15:21	1
Fluoride (SM 4500 F C)	0.16		0.10		mg/L			11/20/23 17:17	1
Sulfate (SM 4500 SO4 E)	170		50		mg/L			11/28/23 17:11	10

Definitions/Glossary

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

Job ID: 500-242244-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 ABB/ASB

Job ID: 500-242244-1

Metals

Prep Batch: 742776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	3005A	
500-242244-2	MW-08	Total Recoverable	Water	3005A	
500-242244-3	MW-17	Total Recoverable	Water	3005A	
500-242244-4	MW-09	Total Recoverable	Water	3005A	
500-242244-5	MW-11	Total Recoverable	Water	3005A	
500-242244-6	MW-12	Total Recoverable	Water	3005A	
500-242244-7	MW-15	Total Recoverable	Water	3005A	
500-242244-8	MW-18	Total Recoverable	Water	3005A	
500-242244-9	MW-19	Total Recoverable	Water	3005A	
500-242244-10	Duplicate	Total Recoverable	Water	3005A	
MB 500-742776/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-742776/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 743999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	7470A	
500-242244-2	MW-08	Total/NA	Water	7470A	
500-242244-3	MW-17	Total/NA	Water	7470A	
500-242244-4	MW-09	Total/NA	Water	7470A	
500-242244-5	MW-11	Total/NA	Water	7470A	
500-242244-6	MW-12	Total/NA	Water	7470A	
500-242244-7	MW-15	Total/NA	Water	7470A	
500-242244-8	MW-18	Total/NA	Water	7470A	
500-242244-9	MW-19	Total/NA	Water	7470A	
500-242244-10	Duplicate	Total/NA	Water	7470A	
MB 500-743999/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-743999/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-242244-10 MS	Duplicate	Total/NA	Water	7470A	
500-242244-10 MSD	Duplicate	Total/NA	Water	7470A	
500-242244-10 DU	Duplicate	Total/NA	Water	7470A	

Analysis Batch: 744222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	7470A	743999
500-242244-2	MW-08	Total/NA	Water	7470A	743999
500-242244-3	MW-17	Total/NA	Water	7470A	743999
500-242244-4	MW-09	Total/NA	Water	7470A	743999
500-242244-5	MW-11	Total/NA	Water	7470A	743999
500-242244-6	MW-12	Total/NA	Water	7470A	743999
500-242244-7	MW-15	Total/NA	Water	7470A	743999
500-242244-8	MW-18	Total/NA	Water	7470A	743999
500-242244-9	MW-19	Total/NA	Water	7470A	743999
500-242244-10	Duplicate	Total/NA	Water	7470A	743999
MB 500-743999/12-A	Method Blank	Total/NA	Water	7470A	743999
LCS 500-743999/13-A	Lab Control Sample	Total/NA	Water	7470A	743999
500-242244-10 MS	Duplicate	Total/NA	Water	7470A	743999
500-242244-10 MSD	Duplicate	Total/NA	Water	7470A	743999
500-242244-10 DU	Duplicate	Total/NA	Water	7470A	743999

QC Association Summary

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

Job ID: 500-242244-1

Metals

Analysis Batch: 744671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	6020B	742776
500-242244-2	MW-08	Total Recoverable	Water	6020B	742776
500-242244-3	MW-17	Total Recoverable	Water	6020B	742776
500-242244-4	MW-09	Total Recoverable	Water	6020B	742776
500-242244-5	MW-11	Total Recoverable	Water	6020B	742776
500-242244-6	MW-12	Total Recoverable	Water	6020B	742776
500-242244-7	MW-15	Total Recoverable	Water	6020B	742776
500-242244-8	MW-18	Total Recoverable	Water	6020B	742776
500-242244-9	MW-19	Total Recoverable	Water	6020B	742776
500-242244-10	Duplicate	Total Recoverable	Water	6020B	742776
MB 500-742776/1-A	Method Blank	Total Recoverable	Water	6020B	742776
LCS 500-742776/2-A	Lab Control Sample	Total Recoverable	Water	6020B	742776

Analysis Batch: 744923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	6020B	742776
500-242244-2	MW-08	Total Recoverable	Water	6020B	742776
500-242244-3	MW-17	Total Recoverable	Water	6020B	742776
500-242244-4	MW-09	Total Recoverable	Water	6020B	742776
500-242244-5	MW-11	Total Recoverable	Water	6020B	742776
500-242244-6	MW-12	Total Recoverable	Water	6020B	742776
500-242244-7	MW-15	Total Recoverable	Water	6020B	742776
500-242244-8	MW-18	Total Recoverable	Water	6020B	742776
500-242244-9	MW-19	Total Recoverable	Water	6020B	742776
500-242244-10	Duplicate	Total Recoverable	Water	6020B	742776
MB 500-742776/1-A	Method Blank	Total Recoverable	Water	6020B	742776
LCS 500-742776/2-A	Lab Control Sample	Total Recoverable	Water	6020B	742776

Analysis Batch: 745140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	6020B	742776
500-242244-2	MW-08	Total Recoverable	Water	6020B	742776
500-242244-3	MW-17	Total Recoverable	Water	6020B	742776
500-242244-4	MW-09	Total Recoverable	Water	6020B	742776
500-242244-5	MW-11	Total Recoverable	Water	6020B	742776
500-242244-6	MW-12	Total Recoverable	Water	6020B	742776
500-242244-7	MW-15	Total Recoverable	Water	6020B	742776
500-242244-8	MW-18	Total Recoverable	Water	6020B	742776
500-242244-9	MW-19	Total Recoverable	Water	6020B	742776
500-242244-10	Duplicate	Total Recoverable	Water	6020B	742776
MB 500-742776/1-A	Method Blank	Total Recoverable	Water	6020B	742776
LCS 500-742776/2-A	Lab Control Sample	Total Recoverable	Water	6020B	742776

Analysis Batch: 745611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total Recoverable	Water	6020B	742776
500-242244-2	MW-08	Total Recoverable	Water	6020B	742776
500-242244-3	MW-17	Total Recoverable	Water	6020B	742776
500-242244-4	MW-09	Total Recoverable	Water	6020B	742776
500-242244-5	MW-11	Total Recoverable	Water	6020B	742776

QC Association Summary

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

Job ID: 500-242244-1

Metals

Analysis Batch: 745793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-6	MW-12	Total Recoverable	Water	6020B	742776
500-242244-7	MW-15	Total Recoverable	Water	6020B	742776
500-242244-8	MW-18	Total Recoverable	Water	6020B	742776
500-242244-9	MW-19	Total Recoverable	Water	6020B	742776
500-242244-10	Duplicate	Total Recoverable	Water	6020B	742776

General Chemistry

Analysis Batch: 741309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	SM 2540C	
500-242244-2	MW-08	Total/NA	Water	SM 2540C	
500-242244-3	MW-17	Total/NA	Water	SM 2540C	
MB 500-741309/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-741309/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 741768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-4	MW-09	Total/NA	Water	SM 2540C	
500-242244-5	MW-11	Total/NA	Water	SM 2540C	
500-242244-6	MW-12	Total/NA	Water	SM 2540C	
500-242244-7	MW-15	Total/NA	Water	SM 2540C	
500-242244-8	MW-18	Total/NA	Water	SM 2540C	
500-242244-9	MW-19	Total/NA	Water	SM 2540C	
500-242244-10	Duplicate	Total/NA	Water	SM 2540C	
MB 500-741768/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-741768/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 742389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-242244-2	MW-08	Total/NA	Water	SM 4500 CI- E	
500-242244-3	MW-17	Total/NA	Water	SM 4500 CI- E	
500-242244-4	MW-09	Total/NA	Water	SM 4500 CI- E	
500-242244-5	MW-11	Total/NA	Water	SM 4500 CI- E	
500-242244-6	MW-12	Total/NA	Water	SM 4500 CI- E	
500-242244-7	MW-15	Total/NA	Water	SM 4500 CI- E	
500-242244-8	MW-18	Total/NA	Water	SM 4500 CI- E	
500-242244-9	MW-19	Total/NA	Water	SM 4500 CI- E	
500-242244-10	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-742389/102	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-742389/103	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-242244-10 MS	Duplicate	Total/NA	Water	SM 4500 CI- E	
500-242244-10 MSD	Duplicate	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 743238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	SM 4500 F C	
500-242244-2	MW-08	Total/NA	Water	SM 4500 F C	
500-242244-3	MW-17	Total/NA	Water	SM 4500 F C	
500-242244-4	MW-09	Total/NA	Water	SM 4500 F C	

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QC Association Summary

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

Job ID: 500-242244-1

General Chemistry (Continued)

Analysis Batch: 743238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-5	MW-11	Total/NA	Water	SM 4500 F C	
500-242244-6	MW-12	Total/NA	Water	SM 4500 F C	
500-242244-7	MW-15	Total/NA	Water	SM 4500 F C	
500-242244-8	MW-18	Total/NA	Water	SM 4500 F C	
500-242244-9	MW-19	Total/NA	Water	SM 4500 F C	
500-242244-10	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-743238/31	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-743238/59	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-743238/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-743238/60	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-242244-8 MS	MW-18	Total/NA	Water	SM 4500 F C	
500-242244-8 MSD	MW-18	Total/NA	Water	SM 4500 F C	

Analysis Batch: 744036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-2	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-242244-3	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-242244-4	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-242244-5	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-242244-7	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-242244-8	MW-18	Total/NA	Water	SM 4500 SO4 E	
MB 500-744036/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-744036/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-242244-4 MS	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-242244-4 MSD	MW-09	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 744183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-242244-6	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-242244-9	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-242244-10	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-744183/73	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-744183/74	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-242244-6 MS	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-242244-6 MSD	MW-12	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-242244-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-742776/1-A
Matrix: Water
Analysis Batch: 744671

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		11/17/23 09:16	11/30/23 21:58	1
Arsenic	<0.0010		0.0010		mg/L		11/17/23 09:16	11/30/23 21:58	1
Barium	<0.0025		0.0025		mg/L		11/17/23 09:16	11/30/23 21:58	1
Beryllium	<0.0010	^1+	0.0010		mg/L		11/17/23 09:16	11/30/23 21:58	1
Cadmium	<0.00050		0.00050		mg/L		11/17/23 09:16	11/30/23 21:58	1
Lead	<0.00050	^1+	0.00050		mg/L		11/17/23 09:16	11/30/23 21:58	1
Molybdenum	<0.0050		0.0050		mg/L		11/17/23 09:16	11/30/23 21:58	1
Thallium	<0.0020		0.0020		mg/L		11/17/23 09:16	11/30/23 21:58	1

Lab Sample ID: MB 500-742776/1-A
Matrix: Water
Analysis Batch: 744923

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	<0.20		0.20		mg/L		11/17/23 09:16	12/01/23 13:27	1
Cobalt	<0.0010		0.0010		mg/L		11/17/23 09:16	12/01/23 13:27	1
Selenium	<0.0025		0.0025		mg/L		11/17/23 09:16	12/01/23 13:27	1

Lab Sample ID: MB 500-742776/1-A
Matrix: Water
Analysis Batch: 745140

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		11/17/23 09:16	12/04/23 15:03	1
Chromium	<0.0050		0.0050		mg/L		11/17/23 09:16	12/04/23 15:03	1

Lab Sample ID: LCS 500-742776/2-A
Matrix: Water
Analysis Batch: 744671

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.106		mg/L		106	80 - 120
Barium	0.500	0.559		mg/L		112	80 - 120
Beryllium	0.0500	0.0504	^1+	mg/L		101	80 - 120
Cadmium	0.0500	0.0488		mg/L		98	80 - 120
Lead	0.100	0.103	^1+	mg/L		103	80 - 120
Molybdenum	1.00	0.938		mg/L		94	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-742776/2-A
Matrix: Water
Analysis Batch: 744923

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.500	0.513		mg/L		103	80 - 120
Selenium	0.100	0.0978		mg/L		98	80 - 120

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QC Sample Results

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

Job ID: 500-242244-1

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

Lab Sample ID: LCS 500-742776/2-A
Matrix: Water
Analysis Batch: 745140

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 742776

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.09		mg/L		109	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-743999/12-A
Matrix: Water
Analysis Batch: 744222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 743999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/28/23 09:25	11/29/23 08:37	1

Lab Sample ID: LCS 500-743999/13-A
Matrix: Water
Analysis Batch: 744222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 743999

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00205		mg/L		102	80 - 120

Lab Sample ID: 500-242244-10 MS
Matrix: Water
Analysis Batch: 744222

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 743999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.00105		mg/L		105	75 - 125

Lab Sample ID: 500-242244-10 MSD
Matrix: Water
Analysis Batch: 744222

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 743999

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

Lab Sample ID: 500-242244-10 DU
Matrix: Water
Analysis Batch: 744222

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 743999

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

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

Lab Sample ID: MB 500-741309/1
Matrix: Water
Analysis Batch: 741309

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/09/23 01:28	1

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QC Sample Results

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

Job ID: 500-242244-1

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

Lab Sample ID: LCS 500-741309/2
Matrix: Water
Analysis Batch: 741309

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

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

Lab Sample ID: MB 500-741768/1
Matrix: Water
Analysis Batch: 741768

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/12/23 22:37	1

Lab Sample ID: LCS 500-741768/2
Matrix: Water
Analysis Batch: 741768

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	264		mg/L		106	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-742389/102
Matrix: Water
Analysis Batch: 742389

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			11/15/23 15:17	1

Lab Sample ID: LCS 500-742389/103
Matrix: Water
Analysis Batch: 742389

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.9		mg/L		105	85 - 115

Lab Sample ID: 500-242244-10 MS
Matrix: Water
Analysis Batch: 742389

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	33		20.0	55.7		mg/L		113	75 - 125

Lab Sample ID: 500-242244-10 MSD
Matrix: Water
Analysis Batch: 742389

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	33		20.0	55.6		mg/L		113	75 - 125	0	20

QC Sample Results

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

Job ID: 500-242244-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-743238/31
Matrix: Water
Analysis Batch: 743238

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			11/20/23 14:11	1

Lab Sample ID: MB 500-743238/59
Matrix: Water
Analysis Batch: 743238

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			11/20/23 16:22	1

Lab Sample ID: LCS 500-743238/32
Matrix: Water
Analysis Batch: 743238

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	9.54		mg/L		95	90 - 119

Lab Sample ID: LCS 500-743238/60
Matrix: Water
Analysis Batch: 743238

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	9.74		mg/L		97	90 - 119

Lab Sample ID: 500-242244-8 MS
Matrix: Water
Analysis Batch: 743238

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.46		5.00	5.32		mg/L		97	75 - 125

Lab Sample ID: 500-242244-8 MSD
Matrix: Water
Analysis Batch: 743238

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.46		5.00	5.21		mg/L		95	75 - 125	2	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-744036/16
Matrix: Water
Analysis Batch: 744036

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			11/28/23 11:23	1

QC Sample Results

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

Job ID: 500-242244-1

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

Lab Sample ID: LCS 500-744036/17
Matrix: Water
Analysis Batch: 744036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	19.9		mg/L		99	88 - 123

Lab Sample ID: 500-242244-4 MS
Matrix: Water
Analysis Batch: 744036

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	130		20.0	148	4	mg/L		96	75 - 125

Lab Sample ID: 500-242244-4 MSD
Matrix: Water
Analysis Batch: 744036

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	130		20.0	149	4	mg/L		101	75 - 125	1	20

Lab Sample ID: MB 500-744183/73
Matrix: Water
Analysis Batch: 744183

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			11/28/23 16:00	1

Lab Sample ID: LCS 500-744183/74
Matrix: Water
Analysis Batch: 744183

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	20.2		mg/L		101	88 - 123

Lab Sample ID: 500-242244-6 MS
Matrix: Water
Analysis Batch: 744183

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	230		20.0	254	4	mg/L		101	75 - 125

Lab Sample ID: 500-242244-6 MSD
Matrix: Water
Analysis Batch: 744183

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	230		20.0	246	4	mg/L		59	75 - 125	3	20

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Chain of Custody Record

Client Information Client Contact: Kaelyn Sperle Company: KPRG and Associates, Inc. Address: 14665 West Lisbon Road, Suite 1A City: Brookfield, WI, 53005 Phone: 262-781-0475 (Tel) 500-242244 COC Email: kaelyns@kprginc.com Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling Site: Illinois ABB/ASB		Sampler: Jack Micner Phone: 262-622-1143 PWSID:	Lab PM: Mockler, Diana J E Mail: Diana.Mockler@eurofinsus.com	Carrier Tracking No(s) State of Origin: IL	COC No: 500-114457-46458 1 Page: Page 1 of 1 Job #: 500-242244					
Due Date Requested: TAT Requested (days): standard Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 4502125100 WO #:		Analysis Requested			Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:					
Sample Identification:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)	903.0, 904.0 6020A, 7470A 2540C, 4500_F.C, SM4500_CL_E SM4500_SO4_E - Sulfate	Total Number of containers						
Sample Date, Sample Time, Sample Type (C=comp, G=grab), Matrix (W=water, S=solid, O=waste/oil), BT=Tissue A=Air		Special Instructions/Note:								
Preservation Code:		X X D D N N								
1	MW-01	11/7/23	1554	G	Water	NN	XX	XX	XX	7
2	MW-08	11/7/23	1358	G	Water	NN	XX	XX	XX	7
	MW-09				Water					7
	MW-11				Water					
	MW-12				Water					
	MW-15				Water					
3	MW-17	11/6/23	1533	G	Water	NN	XX	XX	XX	7
	MW-18				Water					
	MW-19				Water					
	MW-20				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 type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input 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: Jon Zinner		Date/Time: 11/7/23 1800	Company: KPRG	Received by: [Signature]		Date/Time: 11/8/23 0955	Company: [Signature]			
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: 1.671.5						


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: Jack Misner		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-114460-47169 1	
Client Contact: Kaelyn Sperle		Phone: 262-622-1143		E-Mail: Diana Mockler@et eurofinsus.com		State of Origin:		Page: Page 1 of 1	
Company: KPRG and Associates, Inc.		PWSID:		Analysis Reques				Job #: 500-242244	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:		 <p>500-242244 COC</p>				Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F - MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V - MCAA K - EDTA W pH 4-5 L - EDTA Y Trizma Z other (specify)	
City: Brookfield		TAT Requested (days): Standard							
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		WO #:							
Project Name: ABB/ASB Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	
Site: Illinois		SSOW#:		903.0, 904.0		9010C, 6020A, 7470A			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=Air)	
						Preservation Code:			
MW-04						Water			
MW-06						Water			
4 MW-09		11/8/23		1005		G		Water	
5 MW-11		11/8/23		1222		↓		Water	
6 MW-12		11/8/23		1329		↓		Water	
7 MW-15		11/6/23		1421		↓		Water	
MW-17								Water	
8 MW-18		11/8/23		1425		↓		Water	
9 MW-19		11/8/23		1120		↓		Water	
10 Duplicate		11/8/23		-		G		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: <i>Jack Misner</i>		Date/Time: 11/8/23 1715		Company: KPRG		Received by: <i>Stephanie Hammond</i>		Date/Time: 11/9/23 1945	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 1.3+1.2, 1.1+1.0					

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

SHIP DATE: 07NOV23
ACTWGT: 52.50 LB
CAD: 6994780/SSFE2460
DIMS: 27x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

Part # 156287-4836-4408-528505/24

TO EUROFINS

2417 BOND ST.



UNIVERSITY PARK IL 60484

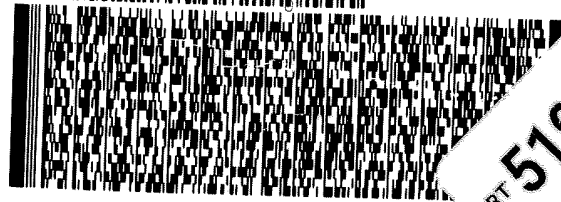
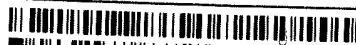
500-242244 Waybi

(555) 555-5555

REF:

INV:

DEPT:



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1015202310

5 of 6

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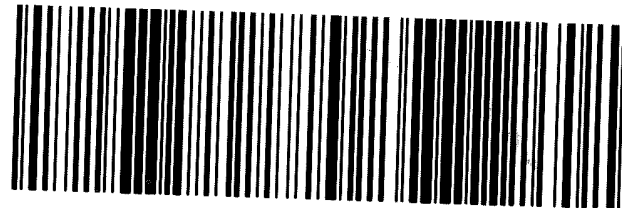
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WED - NOV 10:30A
PRIORITY OVERNIGHT

0201

XP JOTA

AHS
60484
IL-US ORD



... using this tag.

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

SHIP DATE: 08NOV23
ACTWGT: 72.50 LB
CAD: 6994780/SSFE2460
DIMS: 25x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

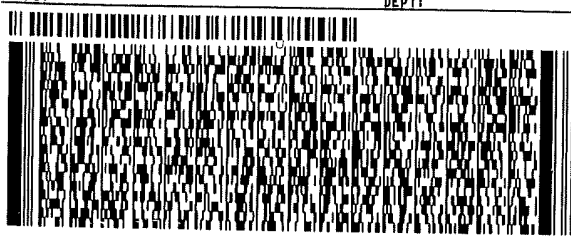
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
INVT
PO1

REF:

DEPT:



2 of 4
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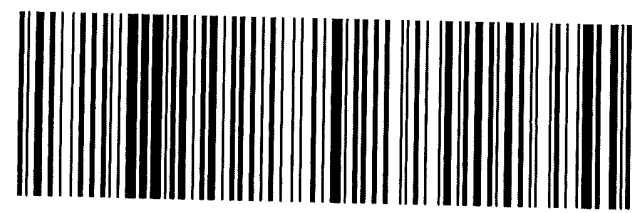
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PRIORITY OVERNIGHT

XP JOTA

0201

480+
1371.2

AHS
60484
IL-US ORD



Part # 156297 4895-78025-838 05/24

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

SHIP DATE: 08NOV23
ACTWGT: 72.50 LB
CAD: 6994780/SSFE2460
DIMS: 25x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

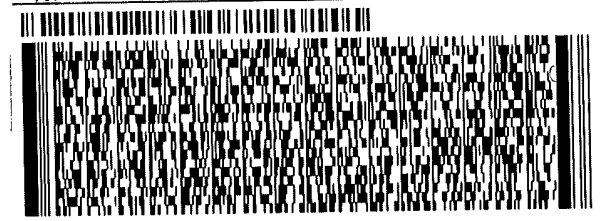
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
INVT
PO1

REF:

DEPT:



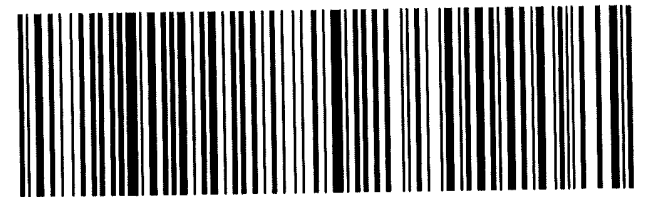
1 of 4
TRK# 7861 2528 2956
0201
MASTER

THU - 09 NOV 10:30A
PRIORITY OVERNIGHT

XP JOTA

480+
1371.2

AHS
60484
IL-US ORD



Part # 156297 4895-78025-838 05/24

- 1
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- 13

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242244-1

Login Number: 242244

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5,1.2,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-242244-1

Client Sample ID: MW-01
Date Collected: 11/07/23 15:54
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:03
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:32
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:11
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745611	BJH	EET CHI	12/06/23 17:27
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:41
Total/NA	Analysis	SM 2540C		1	741309	CLB	EET CHI	11/09/23 01:59
Total/NA	Analysis	SM 4500 CI- E		2	742389	TR	EET CHI	11/15/23 15:41
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:03
Total/NA	Analysis	SM 4500 SO4 E		2	744183	TR	EET CHI	11/28/23 16:39

Client Sample ID: MW-08
Date Collected: 11/07/23 13:58
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:14
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:35
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:15
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745611	BJH	EET CHI	12/06/23 17:31
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:43
Total/NA	Analysis	SM 2540C		1	741309	CLB	EET CHI	11/09/23 02:01
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 15:40
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:08
Total/NA	Analysis	SM 4500 SO4 E		2	744036	TR	EET CHI	11/28/23 11:29

Client Sample ID: MW-17
Date Collected: 11/06/23 15:33
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:18
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:39

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-242244-1

Client Sample ID: MW-17
Date Collected: 11/06/23 15:33
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:18
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745611	BJH	EET CHI	12/06/23 17:34
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:45
Total/NA	Analysis	SM 2540C		1	741309	CLB	EET CHI	11/09/23 02:04
Total/NA	Analysis	SM 4500 Cl- E		10	742389	TR	EET CHI	11/15/23 15:41
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:13
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:30

Client Sample ID: MW-09
Date Collected: 11/08/23 10:05
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:21
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:42
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:22
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		10	745611	BJH	EET CHI	12/06/23 17:38
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:51
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:15
Total/NA	Analysis	SM 4500 Cl- E		1	742389	TR	EET CHI	11/15/23 15:19
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:18
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:31

Client Sample ID: MW-11
Date Collected: 11/08/23 12:22
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:25
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:46
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:26
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		10	745611	BJH	EET CHI	12/06/23 17:41

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-242244-1

Client Sample ID: MW-11
Date Collected: 11/08/23 12:22
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:54
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:18
Total/NA	Analysis	SM 4500 CI- E		2	742389	TR	EET CHI	11/15/23 15:40
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:44
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:30

Client Sample ID: MW-12
Date Collected: 11/08/23 13:29
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:29
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:49
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:42
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745793	BJH	EET CHI	12/07/23 11:12
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:56
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:20
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 15:39
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:49
Total/NA	Analysis	SM 4500 SO4 E		10	744183	TR	EET CHI	11/28/23 16:39

Client Sample ID: MW-15
Date Collected: 11/06/23 14:21
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:33
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:53
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:46
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745793	BJH	EET CHI	12/07/23 11:16
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 08:58
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:23
Total/NA	Analysis	SM 4500 CI- E		10	742389	TR	EET CHI	11/15/23 15:39

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Lab Chronicle

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

Job ID: 500-242244-1

Client Sample ID: MW-15
Date Collected: 11/06/23 14:21
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:53
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:29

Client Sample ID: MW-18
Date Collected: 11/08/23 14:25
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:37
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 14:56
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:50
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745793	BJH	EET CHI	12/07/23 11:20
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 09:00
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:26
Total/NA	Analysis	SM 4500 Cl- E		10	742389	TR	EET CHI	11/15/23 15:39
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 16:58
Total/NA	Analysis	SM 4500 SO4 E		10	744036	TR	EET CHI	11/28/23 11:51

Client Sample ID: MW-19
Date Collected: 11/08/23 11:20
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:40
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 15:10
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:54
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		10	745793	BJH	EET CHI	12/07/23 11:23
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 09:02
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:28
Total/NA	Analysis	SM 4500 Cl- E		1	742389	TR	EET CHI	11/15/23 15:20
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 17:12
Total/NA	Analysis	SM 4500 SO4 E		10	744183	TR	EET CHI	11/28/23 17:11

Lab Chronicle

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

Job ID: 500-242244-1

Client Sample ID: Duplicate
Date Collected: 11/08/23 00:00
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744671	RN	EET CHI	11/30/23 23:44
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	744923	RN	EET CHI	12/01/23 15:13
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		1	745140	RN	EET CHI	12/04/23 16:57
Total Recoverable	Prep	3005A			742776	BDE	EET CHI	11/17/23 09:16 - 11/17/23 09:46 ¹
Total Recoverable	Analysis	6020B		10	745793	BJH	EET CHI	12/07/23 11:27
Total/NA	Prep	7470A			743999	MJG	EET CHI	11/28/23 09:25 - 11/28/23 11:25 ¹
Total/NA	Analysis	7470A		1	744222	MJG	EET CHI	11/29/23 09:04
Total/NA	Analysis	SM 2540C		1	741768	CLB	EET CHI	11/12/23 23:31
Total/NA	Analysis	SM 4500 Cl- E		1	742389	TR	EET CHI	11/15/23 15:21
Total/NA	Analysis	SM 4500 F C		1	743238	SO	EET CHI	11/20/23 17:17
Total/NA	Analysis	SM 4500 SO4 E		10	744183	TR	EET CHI	11/28/23 17:11

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-242244-1

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

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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 12/14/2023 4:33:38 PM

JOB DESCRIPTION

Powerton CCR ABB/ASB (RAD)

JOB NUMBER

500-242244-2

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



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Authorized for release by
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Case Narrative

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

Job ID: 500-242244-2

Job ID: 500-242244-2

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-242244-2**

Receipt

The samples were received on 11/8/2023 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.0° C, 1.2° C and 1.5° C.

Receipt Exceptions

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): Sample #4 COC list sample time as 1005 however all sample container labels list 1022. Logged per COC.

RAD

Method PrecSep_0: Radium-228 Prep Batch 160-636611

The following sample(s) were prepared at a reduced aliquot due to matrix. The sample 500-242244-8 was slightly cloudy. The rest of the selected samples were slightly yellow and slightly cloudy.

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

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Method Summary

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

Job ID: 500-242244-2

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 ABB/ASB (RAD)

Job ID: 500-242244-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242244-1	MW-01	Water	11/07/23 15:54	11/08/23 09:55
500-242244-2	MW-08	Water	11/07/23 13:58	11/08/23 09:55
500-242244-3	MW-17	Water	11/06/23 15:33	11/08/23 09:55
500-242244-4	MW-09	Water	11/08/23 10:05	11/09/23 09:45
500-242244-5	MW-11	Water	11/08/23 12:22	11/09/23 09:45
500-242244-6	MW-12	Water	11/08/23 13:29	11/09/23 09:45
500-242244-7	MW-15	Water	11/06/23 14:21	11/09/23 09:45
500-242244-8	MW-18	Water	11/08/23 14:25	11/09/23 09:45
500-242244-9	MW-19	Water	11/08/23 11:20	11/09/23 09:45
500-242244-10	Duplicate	Water	11/08/23 00:00	11/09/23 09:45

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Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-01
Date Collected: 11/07/23 15:54
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-1
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	0.140	U	0.172	0.173	1.00	0.284	pCi/L	11/10/23 11:12	12/13/23 07:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					11/10/23 11:12	12/13/23 07:19	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	0.411	U	0.302	0.305	1.00	0.453	pCi/L	11/10/23 11:17	12/12/23 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110					11/10/23 11:17	12/12/23 15:57	1
Y Carrier	83.4		30 - 110					11/10/23 11:17	12/12/23 15:57	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	0.552		0.348	0.351	5.00	0.453	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-08
Date Collected: 11/07/23 13:58
Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-2
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	0.326		0.205	0.207	1.00	0.274	pCi/L	11/10/23 11:12	12/13/23 07:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					11/10/23 11:12	12/13/23 07:19	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	0.0599	U	0.264	0.264	1.00	0.485	pCi/L	11/10/23 11:17	12/12/23 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					11/10/23 11:17	12/12/23 15:57	1
Y Carrier	79.6		30 - 110					11/10/23 11:17	12/12/23 15:57	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	0.386	U	0.334	0.335	5.00	0.485	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-17

Lab Sample ID: 500-242244-3

Date Collected: 11/06/23 15:33

Matrix: Water

Date Received: 11/08/23 09:55

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	0.105	U	0.152	0.152	1.00	0.259	pCi/L	11/10/23 11:12	12/13/23 07:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		30 - 110					11/10/23 11:12	12/13/23 07:19	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	-0.0588	U	0.260	0.260	1.00	0.508	pCi/L	11/10/23 11:17	12/12/23 15:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		30 - 110					11/10/23 11:17	12/12/23 15:57	1
Y Carrier	83.0		30 - 110					11/10/23 11:17	12/12/23 15:57	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	0.0459	U	0.301	0.301	5.00	0.508	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-09

Lab Sample ID: 500-242244-4

Date Collected: 11/08/23 10:05

Matrix: Water

Date Received: 11/09/23 09:45

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	0.0107	U	0.150	0.150	1.00	0.296	pCi/L	11/13/23 11:45	12/13/23 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					11/13/23 11:45	12/13/23 14:07	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	0.0923	U	0.308	0.308	1.00	0.552	pCi/L	11/13/23 11:48	12/12/23 16:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.4		30 - 110					11/13/23 11:48	12/12/23 16:09	1
Y Carrier	78.1		30 - 110					11/13/23 11:48	12/12/23 16:09	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	0.103	U	0.343	0.343	5.00	0.552	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-11
Date Collected: 11/08/23 12:22
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5
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	0.303		0.173	0.175	1.00	0.218	pCi/L	11/13/23 11:45	12/13/23 14:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					11/13/23 11:45	12/13/23 14:07	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	0.531	U	0.389	0.392	1.00	0.596	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	74.4		30 - 110					11/13/23 11:48	12/12/23 16:10	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	0.834		0.426	0.429	5.00	0.596	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-12
Date Collected: 11/08/23 13:29
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-6
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	0.142	U	0.166	0.167	1.00	0.272	pCi/L	11/13/23 11:45	12/13/23 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					11/13/23 11:45	12/13/23 14:06	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	0.335	U	0.316	0.317	1.00	0.504	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.5		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	85.6		30 - 110					11/13/23 11:48	12/12/23 16:10	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	0.477	U	0.357	0.358	5.00	0.504	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-15
Date Collected: 11/06/23 14:21
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-7
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	0.193	U	0.204	0.204	1.00	0.328	pCi/L	11/13/23 11:45	12/13/23 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					11/13/23 11:45	12/13/23 14:06	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	0.537		0.325	0.329	1.00	0.471	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	89.3		30 - 110					11/13/23 11:48	12/12/23 16:10	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	0.729		0.384	0.387	5.00	0.471	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-18
Date Collected: 11/08/23 14:25
Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-8
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	0.0592	U	0.264	0.264	1.00	0.491	pCi/L	11/13/23 11:45	12/13/23 14:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					11/13/23 11:45	12/13/23 14:06	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	0.801	U	0.585	0.589	1.00	0.896	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.8		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	78.5		30 - 110					11/13/23 11:48	12/12/23 16:10	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	0.861	U	0.642	0.645	5.00	0.896	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: MW-19

Lab Sample ID: 500-242244-9

Date Collected: 11/08/23 11:20

Matrix: Water

Date Received: 11/09/23 09:45

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	0.166	U	0.161	0.162	1.00	0.253	pCi/L	11/13/23 11:45	12/13/23 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					11/13/23 11:45	12/13/23 14:11	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	0.0663	U	0.261	0.261	1.00	0.477	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	79.6		30 - 110					11/13/23 11:48	12/12/23 16:10	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	0.232	U	0.307	0.307	5.00	0.477	pCi/L		12/13/23 17:13	1

Client Sample Results

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

Job ID: 500-242244-2

Client Sample ID: Duplicate

Lab Sample ID: 500-242244-10

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:45

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	0.0874	U	0.146	0.146	1.00	0.254	pCi/L	11/13/23 11:45	12/13/23 14:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		30 - 110					11/13/23 11:45	12/13/23 14:12	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	0.239	U	0.348	0.348	1.00	0.587	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	74.8		30 - 110					11/13/23 11:48	12/12/23 16:10	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	0.326	U	0.377	0.377	5.00	0.587	pCi/L		12/13/23 17:13	1

Definitions/Glossary

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

Job ID: 500-242244-2

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 ABB/ASB (RAD)

Job ID: 500-242244-2

Rad

Prep Batch: 636342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	PrecSep-21	
500-242244-2	MW-08	Total/NA	Water	PrecSep-21	
500-242244-3	MW-17	Total/NA	Water	PrecSep-21	
MB 160-636342/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-636342/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 636343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-1	MW-01	Total/NA	Water	PrecSep_0	
500-242244-2	MW-08	Total/NA	Water	PrecSep_0	
500-242244-3	MW-17	Total/NA	Water	PrecSep_0	
MB 160-636343/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-636343/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 636610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-4	MW-09	Total/NA	Water	PrecSep-21	
500-242244-5	MW-11	Total/NA	Water	PrecSep-21	
500-242244-6	MW-12	Total/NA	Water	PrecSep-21	
500-242244-7	MW-15	Total/NA	Water	PrecSep-21	
500-242244-8	MW-18	Total/NA	Water	PrecSep-21	
500-242244-9	MW-19	Total/NA	Water	PrecSep-21	
500-242244-10	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-636610/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-636610/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-242244-10 DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 636611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242244-4	MW-09	Total/NA	Water	PrecSep_0	
500-242244-5	MW-11	Total/NA	Water	PrecSep_0	
500-242244-6	MW-12	Total/NA	Water	PrecSep_0	
500-242244-7	MW-15	Total/NA	Water	PrecSep_0	
500-242244-8	MW-18	Total/NA	Water	PrecSep_0	
500-242244-9	MW-19	Total/NA	Water	PrecSep_0	
500-242244-10	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-636611/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-636611/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-242244-10 DU	Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-242244-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-636342/1-A
Matrix: Water
Analysis Batch: 640457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636342

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03171	U	0.125	0.125	1.00	0.242	pCi/L	11/10/23 11:12	12/13/23 07:10	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					11/10/23 11:12	12/13/23 07:10	1

Lab Sample ID: LCS 160-636342/2-A
Matrix: Water
Analysis Batch: 640457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636342

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec	Limits
				Uncert. (2σ+/-)					Limits	
Radium-226	11.3	9.362		1.18	1.00	0.253	pCi/L	83	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	95.9		30 - 110							

Lab Sample ID: MB 160-636610/1-A
Matrix: Water
Analysis Batch: 640620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636610

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.07692	U	0.109	0.109	1.00	0.184	pCi/L	11/13/23 11:45	12/13/23 09:22	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					11/13/23 11:45	12/13/23 09:22	1

Lab Sample ID: LCS 160-636610/2-A
Matrix: Water
Analysis Batch: 640620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636610

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec	Limits
				Uncert. (2σ+/-)					Limits	
Radium-226	11.3	9.798		1.21	1.00	0.270	pCi/L	86	75 - 125	
Carrier	LCS	LCS								
Ba Carrier	%Yield	Qualifier	Limits							
	96.1		30 - 110							

Lab Sample ID: 500-242244-10 DU
Matrix: Water
Analysis Batch: 640620

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 636610

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit	
Radium-226	0.0874	U	0.08783	U	0.125	1.00	0.212	pCi/L	0	1	

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QC Sample Results

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

Job ID: 500-242244-2

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

Lab Sample ID: 500-242244-10 DU
Matrix: Water
Analysis Batch: 640620

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 636610

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-636343/1-A
Matrix: Water
Analysis Batch: 640274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636343

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2391	U	0.287	0.288	1.00	0.475	pCi/L	11/10/23 11:17	12/12/23 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		30 - 110					11/10/23 11:17	12/12/23 15:54	1
Y Carrier	82.2		30 - 110					11/10/23 11:17	12/12/23 15:54	1

Lab Sample ID: LCS 160-636343/2-A
Matrix: Water
Analysis Batch: 640274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636343

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-228	7.65	7.151		1.05	1.00	0.474	pCi/L	93	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	95.9		30 - 110						
Y Carrier	83.0		30 - 110						

Lab Sample ID: MB 160-636611/1-A
Matrix: Water
Analysis Batch: 640405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636611

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4194	U	0.293	0.295	1.00	0.434	pCi/L	11/13/23 11:48	12/12/23 16:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					11/13/23 11:48	12/12/23 16:10	1
Y Carrier	83.7		30 - 110					11/13/23 11:48	12/12/23 16:10	1

Lab Sample ID: LCS 160-636611/2-A
Matrix: Water
Analysis Batch: 640405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636611

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-228	7.65	7.325		1.09	1.00	0.470	pCi/L	96	75 - 125

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QC Sample Results

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

Job ID: 500-242244-2

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

Lab Sample ID: LCS 160-636611/2-A
Matrix: Water
Analysis Batch: 640405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636611

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	96.1		30 - 110
Y Carrier	78.9		30 - 110

Lab Sample ID: 500-242244-10 DU
Matrix: Water
Analysis Batch: 640404

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 636611

Analyte	Sample Sample		DU DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-228	0.239	U	0.2284	U	0.336	1.00	0.565	pCi/L	0.02	1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	102		30 - 110
Y Carrier	80.0		30 - 110

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2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Phone (708) 534-5211

Chain of Custody Record

Client Information		Sampler: <u>Jack Micner</u>	Lab PM: <u>Mockler, Diana J</u>	Carrier Tracking No(s)	COC No: <u>500-114457-46458 1</u>								
Client Contact: <u>Kaelyn Sperle</u>		Phone: <u>262-622-1143</u>	E Mail: <u>Diana Mockler@et eurofinsus.com</u>	State of Origin: <u>IL</u>	Page: <u>Page 1 of 1</u>								
Company: <u>KPRG and Associates, Inc</u>		Analysis Requested			Job #: <u>500-242244</u>								
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested			Preservation Codes M Hexane N - None O AsNaO2 C - Zn Acetate P - Na2O4S Q Na2SO3 D - Nitric Acid R - Na2S2O3 E - NaHSO4 S - H2SO4 F - MeOH G - Amchlor H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone V MCAA J DI Water W pH 4-5 K - EDTA Y Trizma L - EDA Z other (specify)								
City: <u>Brookfield</u>		TAT Requested (days): <u>standard</u>											
State Zip: <u>WI, 53005</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Phone: <u>262-781-0475(Tel)</u> 500-242244 COC		PO #: <u>4502125100</u>											
Email: <u>kaelyns@kprginc.com</u>		WO #:			Other: Total Number of containers								
Project Name: <u>Powerton CCR Event Desc Quarterly Powerton CCR Sampling</u>		Project #: <u>50011612</u>											
Site: <u>ABB/ASB</u> Illinois		SSOW#:											
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6020A, 7470A	2540C, 4500_F_C, SM4500_CL_E	SM4500_SO4_E - Sulfate	Special Instructions/Note:	
MW-01													
1	MW-01	11/7/23	1554	G	Water	N	N	X	X	X	X		7
2	MW-08	11/7/23	1358	G	Water	N	N	X	X	X	X		7
	MW-09				Water								
	MW-11				Water								
	MW-12				Water								
	MW-15				Water								
3	MW-17	11/6/23	1533	G	Water	N	N	X	X	X	X		7
	MW-18				Water								
	MW-19				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: <u>Jon Zinner</u>		Date/Time: <u>11/7/23 1800</u>		Company: <u>KPRG</u>		Received by: <u>[Signature]</u>							
		Date/Time:		Company:		Date/Time: <u>11/8/23 0955</u>							
		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: <u>1.6+1.5</u>									

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: <i>Jack Misner</i>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-114460-47169 1		
Client Contact: Kaelyn Sperle		Phone: <i>262-622-1143</i>		E-Mail: Diana Mockler@et eurofinsus.com		State of Origin:		Page: Page 1 of 1		
Company: KPRG and Associates, Inc.		PWSID:		Analysis Reques		500-242244 COC		Job #: <i>500-242244</i>		
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:		Field Filtered Sample (Yes or No)		503.0, 904.0		Preservation Codes		
City: Brookfield		TAT Requested (days): <i>Standard</i>		Perform MS/MSD (Yes or No)		903.0, 904.0		A HCL M Hexane		
State Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		5010C, 6020A, 7470A		5010C, 6020A, 7470A		B NaOH N None		
Phone: 262-781-0475(Tel)		PO #: 4502125100		2540C, 4500_F_C, SMA500_CL_E, SMA500_SO4_E		2540C, 4500_F_C, SMA500_CL_E, SMA500_SO4_E		C Zn Acetate O AsNaO2		
Email: kaelyns@kprginc.com		WO #:		SMA500_SO4_E - Sulfate		SMA500_SO4_E - Sulfate		D Nitric Acid P Na2O4S		
Project Name: ABB/ASB Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		Total Number of Containers		Total Number of Containers		E NaHSO4 Q Na2SO3		
Site: Illinois		SSOW#:		Special Instructions/Note:		Special Instructions/Note:		F - MeOH R Na2S2O3		
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=Air)		
MW-04								Water		
MW-06								Water		
4 MW-09		11/8/23		1005		G		Water		
5 MW-11		11/8/23		1222				Water		
6 MW-12		11/8/23		1329				Water		
7 MW-15		11/6/23		1421				Water		
MW-17								Water		
8 MW-18		11/8/23		1425				Water		
9 MW-19		11/8/23		1120				Water		
10 Duplicate		11/8/23				G		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: <i>Jack Misner</i>		Date/Time: 11/8/23 1715		Company: KPRG		Received by: <i>Stephanie Hammond</i>		Date/Time: 11/9/23 1945		Company: <i>EIA</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>1.3+1.2, 1.1+1.0</i>						

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

SHIP DATE: 07NOV23
ACTWGT: 52.50 LB
CAD: 6994780/SSFE2460
DIMS: 27x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

Part # 156287-4836-4408-5E8505/24

TO EUROFINS

2417 BOND ST.



UNIVERSITY PARK IL 60484

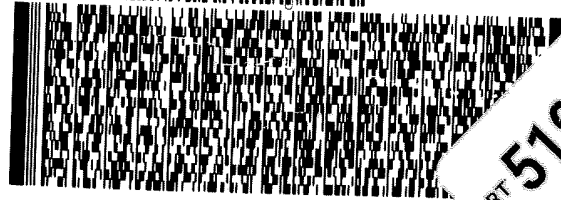
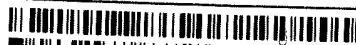
500-242244 Waybi

(555) 555-5555

REF:

INV:

DEPT:



RT 519 5 10:30 A
ST 25 0070 11.08

1015202310

5 of 6

MPS# 7860 7723 0070

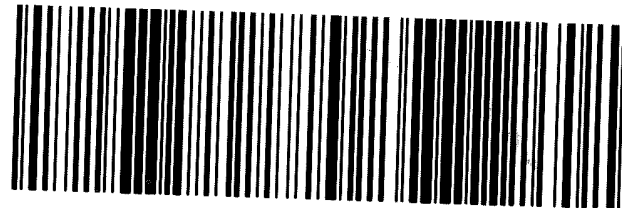
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WED - NOV 10:30A
PRIORITY OVERNIGHT

0201

XP JOTA

AHS
60484
IL-US ORD



... using this tag.

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

SHIP DATE: 08NOV23
ACTWGT: 72.50 LB
CAD: 6994780/SSFE2460
DIMS: 25x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

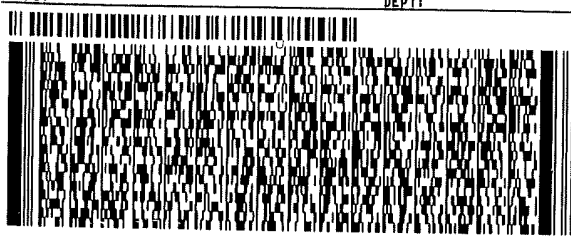
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
INVT
PO1

REF:

DEPT:



Part # 156297 4885-180035 8389 05/24

2 of 4
MPS# 7861 2528 2967
0263
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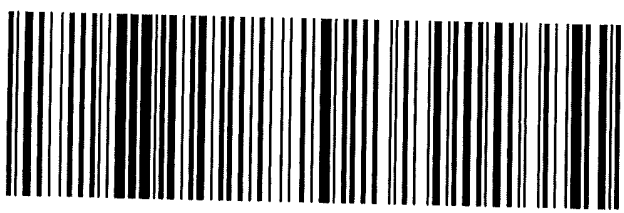
THU - 09 NOV 10:30A
PRIORITY OVERNIGHT

XP JOTA

0201

480+
1371.2

AHS
60484
IL-US ORD



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

SHIP DATE: 08NOV23
ACTWGT: 72.50 LB
CAD: 6994780/SSFE2460
DIMS: 25x14x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO EUROFINS

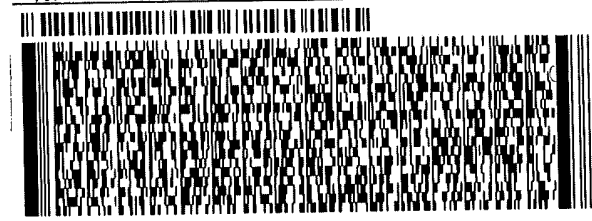
2417 BOND ST.

UNIVERSITY PARK IL 60484

(555) 555-5555
INVT
PO1

REF:

DEPT:



Part # 156297 4885-180035 8389 05/24

1 of 4

TRK# 7861 2528 2956
0201

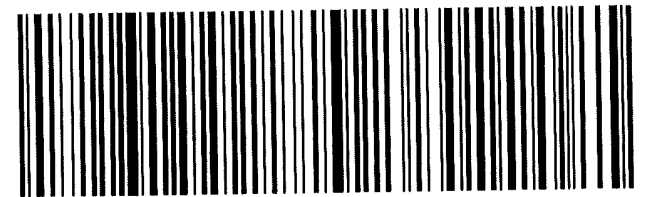
MASTER

XP JOTA

480+
1371.2

THU - 09 NOV 10:30A
PRIORITY OVERNIGHT

AHS
60484
IL-US ORD



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- 14

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: Mockler, Diana J
 Shipping/Receiving: Diana Mockler@eurofins.com
 Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North, Earth City, MO, 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Email: [Redacted]
 Project Name: Powerlon CCR
 Site: MWG - Powerton

Sampler: Mockler, Diana J
 Lab PM: Diana Mockler@eurofins.com
 E-Mail: Diana Mockler@eurofins.com
 Phone: [Redacted]

Carrier Tracking No(s): 500-181266-1
 State of Origin: Illinois
 Page: Page 1 of 1
 Job #: 500-242244-2

Analysis Requested

Due Date Requested: 12/11/2023
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 50011612
 SSOW#:

Accreditations Required (See note): NELAP - Illinois

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - PH 4-5
 X - Trizma
 Y - EDTA
 Z - other (specify)
 Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of containers	Special Instructions/Note:
MW-01 (500-242244-1)	11/7/23	15:54 Central	Water	Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-08 (500-242244-2)	11/7/23	13:58 Central	Water	Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-17 (500-242244-3)	11/7/23	15:33 Central	Water	Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

Note: Since laboratory accreditations are subject to change, Eurofins 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

Special Instructions/QC Requirements:
 Return To Client
 Disposal By Lab
 Archive For _____ Months

Empty Kit Relinquished by: [Signature] Date: 11/17/23 14:30

Relinquished by: [Signature] Date/Time: NOV 09 2023 09:00 Company: [Redacted]

Relinquished by: [Signature] Date/Time: [Redacted] Company: [Redacted]

Relinquished by: [Signature] Date/Time: [Redacted] Company: [Redacted]

Custody Seals Intact: Yes No
 Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Version: 02/06/2021



Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Lab PW: Mockler, Diana J	Carrier Tracking No(s): 500-181331.1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-242244-2
Address: 13715 Rider Trail North,		State of Origin: Illinois	
City: Earth City	Due Date Requested: 12/14/2023	Analysis Requested	
State, Zip: MO, 63045	IAT Requested (days):		
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:		
Email: Powerton CCR ABB/ASB (RAD)	WO #:		
Project Name: Powerton CCR ABB/ASB (RAD)	Project #: 50011612		
Site: MWG - Powerton	SSOW#:		

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, Sw=soil, O=water/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPc	Total Number of Containers	Special Instructions/Note:
MW-09 (500-242244-4)	11/8/23	10:05 Central		Water	X	X	X	X		3	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-11 (500-242244-5)	11/8/23	12:22 Central		Water	X	X	X	X		3	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-12 (500-242244-6)	11/8/23	13:29 Central		Water	X	X	X	X		3	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-15 (500-242244-7)	11/6/23	14:21 Central		Water	X	X	X	X		3	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-18 (500-242244-8)	11/8/23	14:25 Central		Water	X	X	X	X		3	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
MW-19 (500-242244-9)	11/8/23	11:20 Central		Water	X	X	X	X		3	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs
Duplicate (500-242244-10)	11/8/23	Central		Water	X	X	X	X		3	Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no NCMs

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

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

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: *[Signature]* Date: 11-9-23 1600 Company: *ETA*
 Relinquished by: *[Signature]* Date/Time: _____ Received by: *[Signature]* Date/Time: NOV 10 2023 0840 Company: _____
 Relinquished by: *[Signature]* Date/Time: _____ Received by: *[Signature]* Date/Time: _____ Company: _____

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242244-2

Login Number: 242244

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5,1.2,1.0
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: 500-242244-2

Login Number: 242244

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 11/09/23 03:38 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-242244-2

Login Number: 242244

List Number: 3

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 11/10/23 02:28 PM

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



Lab Chronicle

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

Job ID: 500-242244-2

Client Sample ID: MW-01

Date Collected: 11/07/23 15:54

Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 07:19
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-08

Date Collected: 11/07/23 13:58

Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 07:19
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-17

Date Collected: 11/06/23 15:33

Date Received: 11/08/23 09:55

Lab Sample ID: 500-242244-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636342	KAC	EET SL	11/10/23 11:12
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 07:19
Total/NA	Prep	PrecSep_0			636343	KAC	EET SL	11/10/23 11:17
Total/NA	Analysis	904.0		1	640274	FLC	EET SL	12/12/23 15:57
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-09

Date Collected: 11/08/23 10:05

Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:07
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:09
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Lab Chronicle

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

Job ID: 500-242244-2

Client Sample ID: MW-11

Date Collected: 11/08/23 12:22

Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:07
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-12

Date Collected: 11/08/23 13:29

Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:06
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-15

Date Collected: 11/06/23 14:21

Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:06
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: MW-18

Date Collected: 11/08/23 14:25

Date Received: 11/09/23 09:45

Lab Sample ID: 500-242244-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640618	FLC	EET SL	12/13/23 14:06
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Lab Chronicle

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

Job ID: 500-242244-2

Client Sample ID: MW-19

Lab Sample ID: 500-242244-9

Date Collected: 11/08/23 11:20

Matrix: Water

Date Received: 11/09/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640620	FLC	EET SL	12/13/23 14:11
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

Client Sample ID: Duplicate

Lab Sample ID: 500-242244-10

Date Collected: 11/08/23 00:00

Matrix: Water

Date Received: 11/09/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636610	KAC	EET SL	11/13/23 11:45
Total/NA	Analysis	903.0		1	640620	FLC	EET SL	12/13/23 14:12
Total/NA	Prep	PrecSep_0			636611	KAC	EET SL	11/13/23 11:48
Total/NA	Analysis	904.0		1	640404	FLC	EET SL	12/12/23 16:10
Total/NA	Analysis	Ra226_Ra228		1	640269	SCB	EET SL	12/13/23 17:13

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 ABB/ASB (RAD)

Job ID: 500-242244-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24

- 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 ABB/ASB (RAD)

Job ID: 500-242244-2

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)	
500-242244-1	MW-01	94.9	
500-242244-2	MW-08	92.5	
500-242244-3	MW-17	95.6	
500-242244-4	MW-09	96.4	
500-242244-5	MW-11	102	
500-242244-6	MW-12	99.5	
500-242244-7	MW-15	94.3	
500-242244-8	MW-18	84.8	
500-242244-9	MW-19	103	
500-242244-10	Duplicate	96.1	
500-242244-10 DU	Duplicate	102	
LCS 160-636342/2-A	Lab Control Sample	95.9	
LCS 160-636610/2-A	Lab Control Sample	96.1	
MB 160-636342/1-A	Method Blank	105	
MB 160-636610/1-A	Method Blank	100	

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)
500-242244-1	MW-01	94.9	83.4
500-242244-2	MW-08	92.5	79.6
500-242244-3	MW-17	95.6	83.0
500-242244-4	MW-09	96.4	78.1
500-242244-5	MW-11	102	74.4
500-242244-6	MW-12	99.5	85.6
500-242244-7	MW-15	94.3	89.3
500-242244-8	MW-18	84.8	78.5
500-242244-9	MW-19	103	79.6
500-242244-10	Duplicate	96.1	74.8
500-242244-10 DU	Duplicate	102	80.0
LCS 160-636343/2-A	Lab Control Sample	95.9	83.0
LCS 160-636611/2-A	Lab Control Sample	96.1	78.9
MB 160-636343/1-A	Method Blank	105	82.2
MB 160-636611/1-A	Method Blank	100	83.7

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

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/7/23
Sample Name	MW - 91	Start Time	1540	
Condition of Well	Good			
Water Level	29.33	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	5.5 qt	WL at Sample Time	29.35	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR (ABB/ASB, FAB), CCA	Sample Time	1554	
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)
1541	29.33	7.05	14.7	881	8.35	81.6	3.24
1544	-	6.96	14.3	881	6.60	79.7	4.28
1547	-	6.95	14.2	880	6.04	78.6	3.35
1550	-	6.95	14.2	879	5.61	78.4	2.93

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KCS

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	11/7/23
Sample Name	MW-08	Start Time	1341	
Condition of Well	Good			
Water Level	26.29	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	slightly cloudy	
Volume Removed	5.5 qt	WL at Sample Time	26.29	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	ABB/ASB, CCA	Sample Time	1358	
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)
1342	26.29	7.54	16.3	1.176	7.78	-127.1	45.17
1345	—	7.60	15.5	1.182	4.20	-217.3	15.77
1348	—	7.63	15.6	1.171	3.07	-227.7	10.89
1351	—	7.66	15.6	1.174	2.31	-231.2	6.50
1354	—	7.67	15.6	1.178	1.91	-234.6	4.77

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	11/8/23
Sample Name	MW-09	Start Time	1005	
Condition of Well	good			
Water Level	29.00	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	5 qt	WL at Sample Time	29.00	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	CCA, CCR (ABB/ASB)	Sample Time	1022	
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)
1006	29.00	6.98	17.5	.828	7.58	91.6	3.07
1009	-	7.10	17.4	.841	4.94	82.7	5.04
1012	-	7.13	17.6	.841	3.93	77.1	10.69
1015	-	7.15	17.3	.839	3.38	72.6	3.02
1028	-	7.15	17.4	.839	3.16	69.0	3.10

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/9/23
Sample Name	MW-11	Start Time	1159	
Condition of Well	Good			
Water Level	33.88	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Slightly Cloudy Yellow tint	
Volume Removed	6 qt	WL at Sample Time	33.88	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy	
Sample Analysis	ABB/ASB, CCA	Sample Time	1222	
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)
1200	33.88	7.57	17.6	1.088	8.50	-26.9	3.36
1203	-	7.06	16.5	1.332	5.03	-97.9	70.80
1206	-	-	-	-	-	-	-
1209	-	7.08	16.8	1.252	3.36	-101.3	40.57
1212	-	7.08	16.4	1.224	2.57	-108.8	58.48
1215	-	7.10	16.4	1.157	1.93	-112.8	25.06
1218	-	7.10	16.3	1.145	1.77	-113.6	19.15

SAMPLING NOTES: Stopped at 1206 to clean silicone tubing
↳ organic matter clog

Sampler Name and
Company:

KPRG and Associates

KLS

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	11/8/23
Sample Name	MW-12	Start Time	1310	
Condition of Well	Good			
Water Level	23.91	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clady Orange	
Volume Removed	7qt	WL at Sample Time	24.00	
Method of Sample	Low flow bladder	Sample Characteristics	Sl. cloudy, orange tint	
Sample Analysis	CCA, CCR (ABB/ASB)	Sample Time	1329	
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)
1311	23.91	7.51	15.3	1.237	6.95	-87.5	339.29
1314	-	7.56	14.9	1.191	4.14	-130.7	258.53
1317	-	7.57	14.8	1.190	3.04	-144.4	900.12
1320	-	7.54	14.9	1.200	2.45	-150.5	281.10
1323	-	7.55	14.9	1.201	2.09	-163.6	66.15
1325	-	7.56	14.9	1.200	1.87	-170.4	33.77

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/6/23
Sample Name	MW-15	Start Time	1402	
Condition of Well	Good			
Water Level	26.04	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Orange/Brown	
Volume Removed	6 qt	WL at Sample Time	-	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy Brown	
Sample Analysis	CCR MCB, CCA ABB/ASB	Sample Time	MCB & 1421 ABB/ASB	
Water Quality Meter	YSI Pro Dss		CCA sample time: 11/8/23/1510	

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1405 1403	26.04	7.07	16.4	2.002	6.03	-124.2	530.64
1408	-	7.05	16.1	1.945	3.44	-149.5	86.65
1411	-	7.05	16.0	1.957	2.54	-152.1	19.33
1414	-	7.05	16.0	1.963	2.10	-154.4	12.42
1417	-	7.05	16.0	1.975	1.82	-155.2	9.00

SAMPLING NOTES: -WL below pump @ sample time
 - Only collected half of ABB/ASB need to return once recharged
 - Return to continue sampling for ABB/ASB & CCA if possible - 11/8/23/1500

Sampler Name and Company: KPRG and Associates *Jm*

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/6/23
Sample Name	MW-17	Start Time	1518	
Condition of Well	Good			
Water Level	24.42	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Slightly Cloudy BROWN	
Volume Removed	4 qt	WL at Sample Time	25.30	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR MCB, ABB/ASB	Sample Time	1533	
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)
1520	24.42	7.27	15.6	1.656	5.60	69.6	149.72
1523	-	7.18	15.5	1.609	4.41	67.1	30.99
1526	-	7.18	15.5	1.615	3.93	64.8	14.99
1529	-	7.18	15.5	1.627	3.98	62.1	6.02

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KCS

PROJECT NAME	NRG – POWERTON STATION – 12313.1		DATE	11/8/23
Sample Name	MW-18	Start Time	1412	
Condition of Well	Good			
Water Level	29.12	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Gray	
Volume Removed	0 qt	WL at Sample Time	29.62	
Method of Sample	Low flow bladder	Sample Characteristics	sl. cloudy	
Sample Analysis	ABB/ASB	Sample Time	1425	
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)
1413	29.12	7.66	15.8	1.552	7.35	-103.0	38.96
1416	-	7.92	15.4	1.551	4.65	-85.9	17.17
1419	-	7.92	15.3	1.550	3.68	-91.0	14.20
1421	-	7.92	15.4	1.551	3.14	-92.0	14.33

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	NRG - POWERTON STATION - 12313.1		DATE	11/8/23
Sample Name	MW-19	Start Time	1106	
Condition of Well	Good			
Water Level	27.14	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	4.5 qt	WL at Sample Time	27.14	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	ABB/ASB	Sample Time	1120	
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)
1107	27.14	7.47	14.0	.856	7.67	87.4	3.73
1110	-	7.35	13.9	.861	4.61	87.1	3.00
1113	-	7.34	13.8	.864	3.25	83.1	2.87
1116	-	7.34	13.7	.862	2.50	79.1	2.55

SAMPLING NOTES:

Duplicate ABB/ASB

Sampler Name and Company:

KPRG and Associates

KLS