



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**FEDERAL CCR COMPLIANCE
ANNUAL GROUNDWATER MONITORING and
CORRECTIVE ACTION REPORT – 2021
ASH BY-PASS BASIN AND ASH SURGE BASIN**

**Midwest Generation, LLC
Powerton Station
13082 E. Manito Rd.
Pekin, IL 61554**

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January 31, 2022

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OVERVIEW

Groundwater monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94 and 257.95, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) and subsequent amendments, have been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Powerton Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for the Ash Surge Basin (ASB) and the Ash By-pass basin (ABB). The monitoring well network around these ponds consists of monitoring wells (MW-01 [upgradient], MW-08, MW-09 [upgradient], MW-11, MW-12, MW-15, MW-17, MW-18 and MW-19 [upgradient]) as shown on Figure 1.

This overview of the 2021 groundwater monitoring period is provided in accordance with revised requirements under Section 257.90(e)(6). Each required item is discussed separately below.

- Section 257.90(e)(6)(i) – At the start of the current monitoring period, the subject CCR units were operating under the assessment monitoring program outlined in Section 257.95.
- Section 257.90(e)(6)(ii) – At the end of the current monitoring period, the subject CCR unit continues to operate under the assessment monitoring program outlined in Section 257.95.
- Section 257.90(e)(6)(iii) – The following statistically significant increases (SSIs) above established background for the Appendix III detection monitoring constituents were noted during this monitoring period:
 - MW-08 – chloride and fluoride (May, August and December), sulfate (May and August).
 - MW-11 – boron (December only), chloride, fluoride sulfate and TDS (May, August and December).
 - MW-12 – chloride and sulfate (May, August and December), fluoride (August and December), and TDS (May only).
 - MW-15 – boron, calcium, chloride, fluoride, sulfate and TDS (May, August and December) and pH (August and November).
 - MW-17 – calcium (August and November), chloride, fluoride, sulfate and TDS (May, August and December).
 - MW-18 – calcium (August and December), chloride, fluoride, pH, sulfate and TDS (May, August and December).

These constituent SSIs have been previously addressed under an Alternate Source Demonstration (ASD) which is still applicable to the potential SSIs noted for 2021 monitoring. The groundwater monitoring program was transitioned to assessment monitoring under Section 257.95 in April 2018.

- Section 257.90(e)(6)(iv) – In 2021 there were no confirmed statistically significant levels (SSLs) above groundwater protection standards for the Appendix IV assessment monitoring constituents for these units recorded during this monitoring period with the exception of arsenic at wells MW-11 and MW-12 and selenium at well MW-15. Arsenic and selenium are parameters previously addressed under the 2018 Appendix IV ASD which determined that there were no SSLs associated with these parameters.
- Section 257.90(e)(6)(v) – The subject units are not under corrective action.
- Section 257.90(e)(6)(vi) – The subject units are not under corrective action.

1.0 INTRODUCTION

The Assessment Monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94 and 257.95, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) have been completed for the ash basin monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Powerton Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for the ASB and the ABB. The monitoring well network around these ponds consists of monitoring wells (MW-01 [upgradient], MW-08, MW-09 [upgradient], MW-11, MW-12, MW-15, MW-17, MW-18 and MW-19 [upgradient]) as shown on Figure 1.

With the vacating of Section 257.100(b) through (d) in October 2016, the inactive Former Ash Basin (FAB), which is being planned for closure, was added to the CCR units that would require monitoring under the CCR Rule. Wells MW-02 through MW-05 and MW-10 were added to the CCR sampling program specifically for the FAB and are not part of the monitoring program for the Ash Surge Basin and Ash By-pass Basin. The FAB monitoring results are discussed under separate cover.

This annual report covers the work performed relative to CCR groundwater monitoring for the 2021 calendar year for the ASB and ABB. It does not duplicate information or activities previously reported for 2020. It is prepared in accordance with Section 257.90(e)(1-6) and summarizes the sampling procedures used, provides an evaluation of groundwater flow conditions, summarizes the analytical data generated, and summarizes conclusions and recommendations for the station going forward.

2.0 FIELD PROCEDURES AND GROUNDWATER FLOW EVALUATION

2.1 Field Procedures

As previously noted, the CCR groundwater monitoring network around the ASB and ABB consists of monitoring wells (MW-01 [upgradient], MW-08, MW-09 [upgradient], MW-11, MW-12, MW-15, MW-17, MW-18 and MW-19 [upgradient]) as shown on Figure 1. As part of sampling procedures, the integrity of all monitoring wells was inspected and water levels were obtained using an electronic water level meter (see summary of water level discussion below). All wells were found in generally good condition.

All groundwater samples were collected using the low-flow sampling technique from dedicated pumps. The samples were not filtered prior to analysis to provide for total metals concentrations as opposed to dissolved metals concentrations. One duplicate sample was collected from a randomly selected monitoring well per sampling event for quality assurance purposes. The duplicate samples from the May and December 2021 sampling events were from monitoring well MW-18 and the duplicate sample from the August 2021 sampling event was from monitoring well MW-08.

2.2 Groundwater Flow Evaluation

Water level data measurements were obtained from monitoring wells during each round of groundwater sampling. A complete round of water levels was collected prior to initiating sampling, and the water level data are summarized in Table 1. It is noted that water levels were also concurrently measured at other monitoring well locations in the area that are not part of the CCR monitoring network for the ASB and ABB. The full set of water levels were used to generate a groundwater flow map for each sampling event. It is also noted that CCR monitoring wells MW-08, MW-12, MW-15 and MW-17 are screened within a shallow, localized, saturated clay/silt unit which is underlain by a more extensive sand unit. The remaining monitoring wells have deeper screens, within the more extensive sand unit. The water levels from wells screened in the clay/silt unit and the water levels from monitoring wells screened within the sand unit were evaluated separately and used to generate groundwater flow maps for each unit. These maps are provided on Figures 2 through 7.

In accordance with general groundwater sampling requirements under Section 257.93(c), Table 2 provides a summary of the flow direction and an estimated rate of groundwater flow for each sampling event. The flow rate was calculated using the following equation:

$$V_s = \frac{Kdh}{n_e dl}, \text{ where}$$

V_s is seepage velocity (distance/time)

K is hydraulic conductivity (distance/time)

dh/dl is hydraulic gradient (unitless)

n_e is effective porosity (unitless)

The average hydraulic conductivities of 3.28×10^{-7} ft/sec (silt/clay unit) in Table 2 was estimated from literature (Freeze and Cherry, 1979). Through 2020 the average hydraulic conductivity of 3.81×10^{-3} ft/sec (sandy unit) used in Table 2 was obtained from the Hydrogeologic Assessment Report dated February 2011 and prepared by Patrick Engineering. As part of Illinois EPA State CCR Rule requirements, some groundwater modeling was completed for the Ash By-pass Basin and Ash Surge Basin. The Patrick Engineering slug test data were re-evaluated as part of the modeling exercise and a modified hydraulic conductivity geometric mean of 1.39×10^{-3} ft/sec was estimated and subsequently used in Table 2 for 2021 estimates. The estimated effective porosities of the silt/clay materials (0.40) and of the sandy materials (0.35) were obtained from literature (Applied Hydrogeology, Fetter, 1980).

3.0 ANALYTICAL DATA AND STATUS OF EVALUATIONS

3.1 Sampling Summary

The groundwater sampling summary from 2021 is provided in Table 3, in accordance with 257.90 (e)(3). Federal CCR assessment monitoring requires groundwater sampling on a semi-annual basis.

3.2 Data Summary

The analytical data from the ABB and ASB assessment monitoring groundwater sampling for Appendix III and IV parameters are provided in Tables 4 and 5, respectively. Table 4 includes Prediction Limits (PLs) for Appendix III parameters and Table 5 includes Groundwater Protection Standards (GWPS) established for detected Appendix IV compounds under the Federal CCR Rule. Both tables include the sample dates and whether the specific well is considered upgradient or downgradient relative to groundwater flow and the regulated unit(s). All duplicate values were within an acceptable range. The analytical data packages from these sampling events are provided in Appendix A. In 2021 there were no confirmed statistically significant levels (SSLs) above groundwater protection standards for the Appendix IV assessment monitoring constituents for these units recorded during this monitoring period with the exception of arsenic at wells MW-11 and MW-12 and selenium at well MW-15. Arsenic and selenium are parameters previously addressed under an Appendix IV ASD for these units, which continues to apply.

3.3 Current Status

The ASB and ABB were transitioned from detection monitoring to assessment monitoring in April 2018 and currently remain in assessment monitoring.

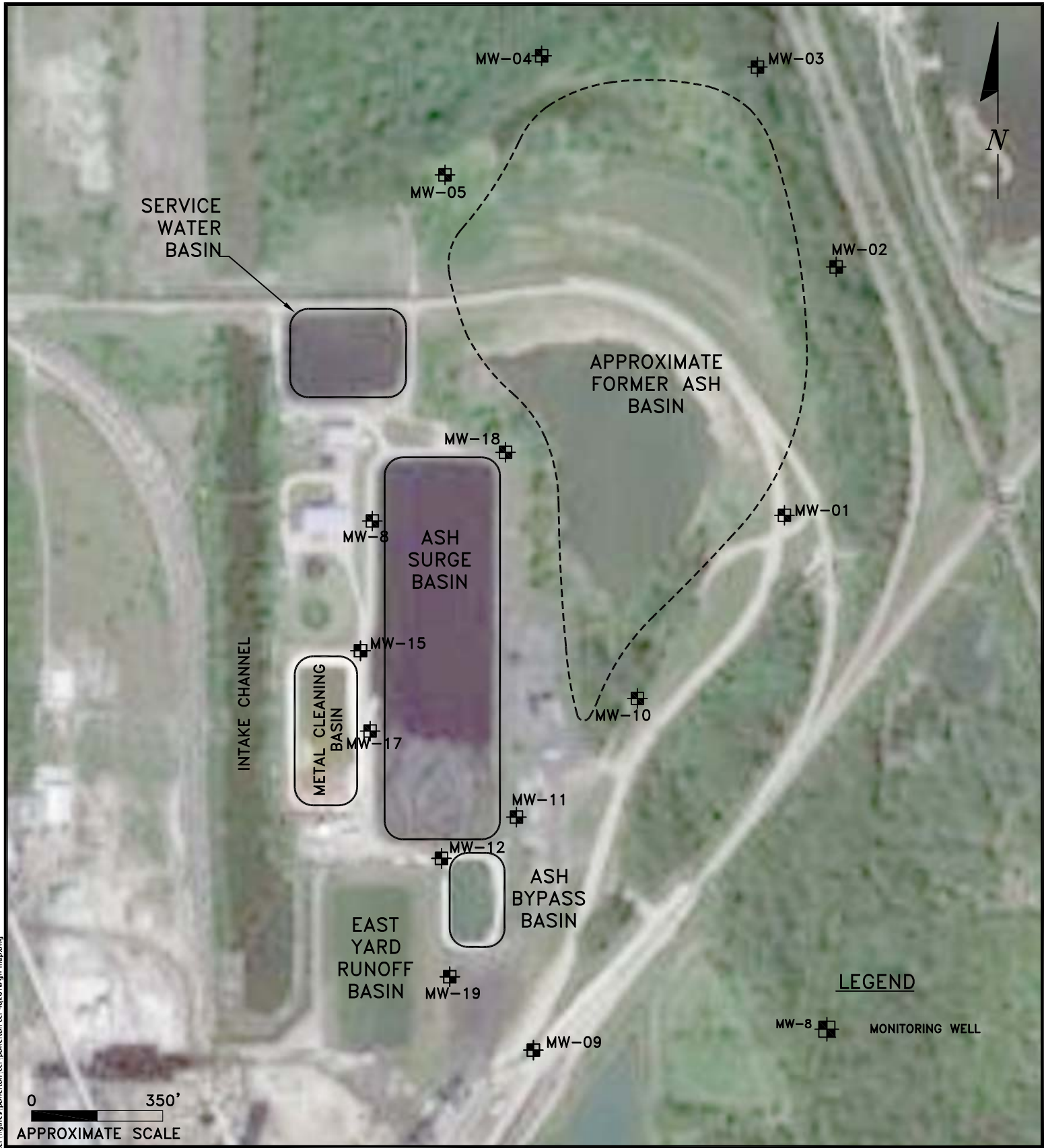
4.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS

The assessment monitoring requirements in accordance with the CCR rule are being successfully met. Since the continued assessment monitoring has not detected any Appendix IV constituents above the Federal CCR site specific GWPSs attributable to the subject regulated units, it is recommended that the station remain in semi-annual assessment monitoring in accordance with Section 257.95.

5.0 REFERENCES

- Federal Register, Environmental Protection Agency, 40 CFR Parts 257 and 261, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals From Electric Utilities; Final Rule. Vol. 80, No. 74, Friday April 17, 2015.
- Patrick Engineering, Inc., Hydrogeologic Assessment Report – Powerton Generating Station, Pekin, IL. February 2011.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2017 Ash By-Pass Basin and Ash-Surge Basin, Midwest Generation, LLC Powerton Generating Station. January 31, 2018.
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- C.W. Fetter, Jr., Applied Hydrogeology. Charles E. Merrill Publishing Co., 1980.
- R.A. Freeze and J.A. Cherry, Groundwater. Prentice-Hall, Inc. Publishing Co., 1979

FIGURES



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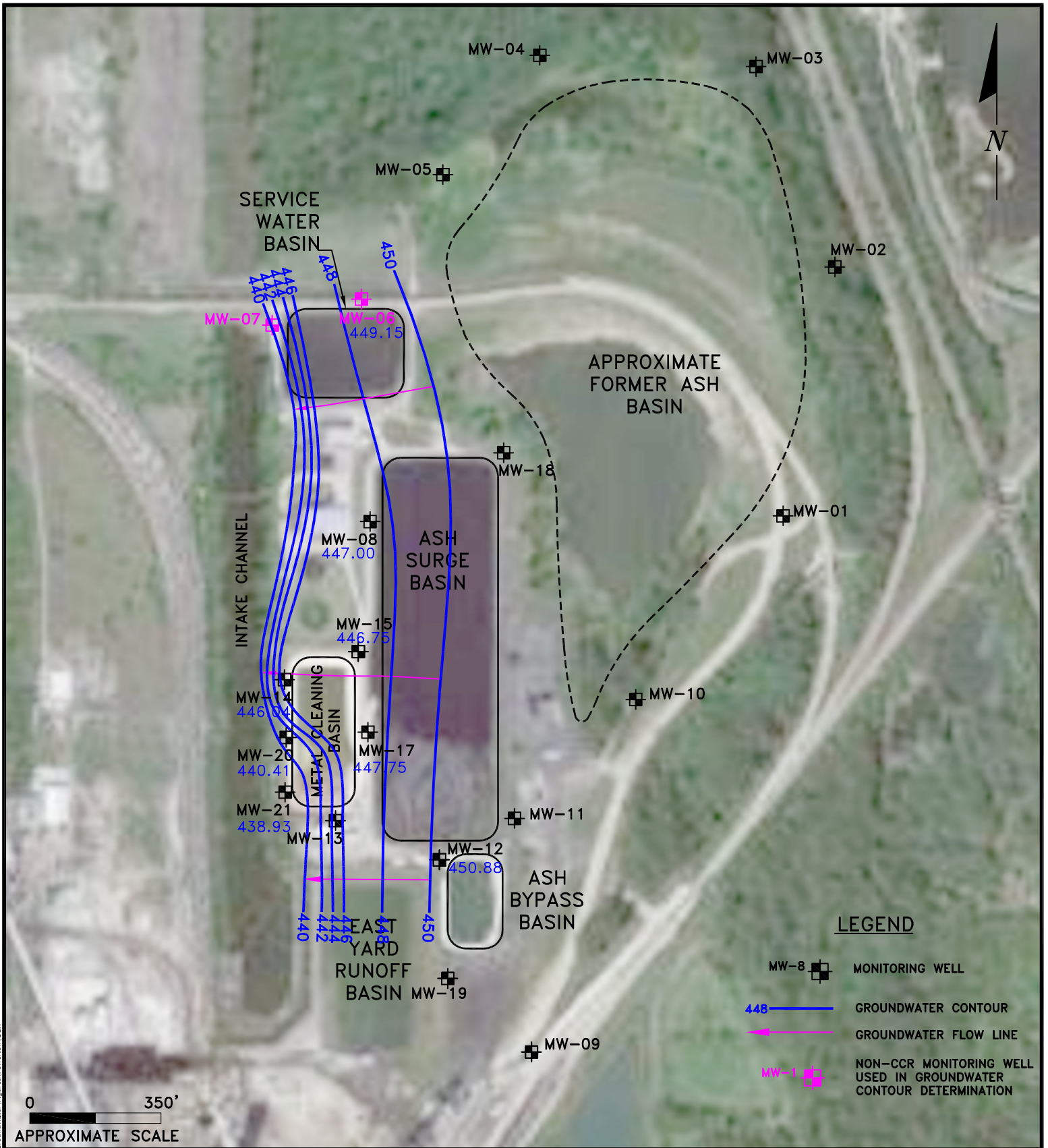
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CCR MONITORING WELL SITE MAP

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350' Date: December 19, 2018

KPRG Project No. 12313.1 FIGURE 1



The Projects Midwest Generation 12313 Ash Pond Groundwater Figures, Powerton CCR

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**CCR GROUNDWATER CONTOUR MAP
FOR SILT/CLAY UNIT 05/2021**

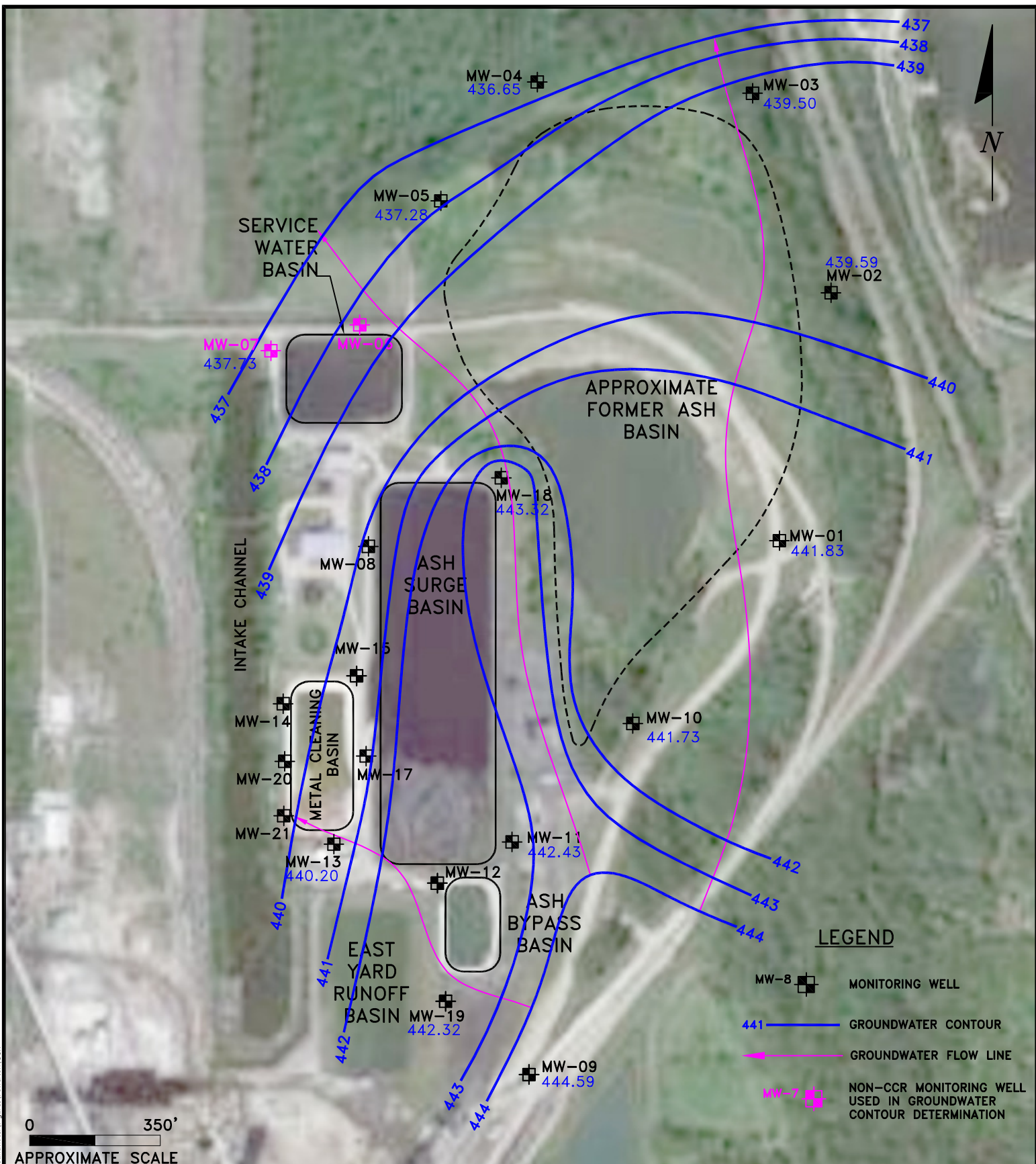
**POWERTON STATION
PEKIN, ILLINOIS**

Scale: 1" = 350'

Date: June 10, 2021

KPRG Project No. 12313.1

FIGURE 2



To: Projects\Midwest Generation\12313.1 Ash Pond Groundwater\Figures\Powerton\CCR

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CCR GROUNDWATER CONTOUR MAP FOR GRAVELLY SAND UNIT 05/2021

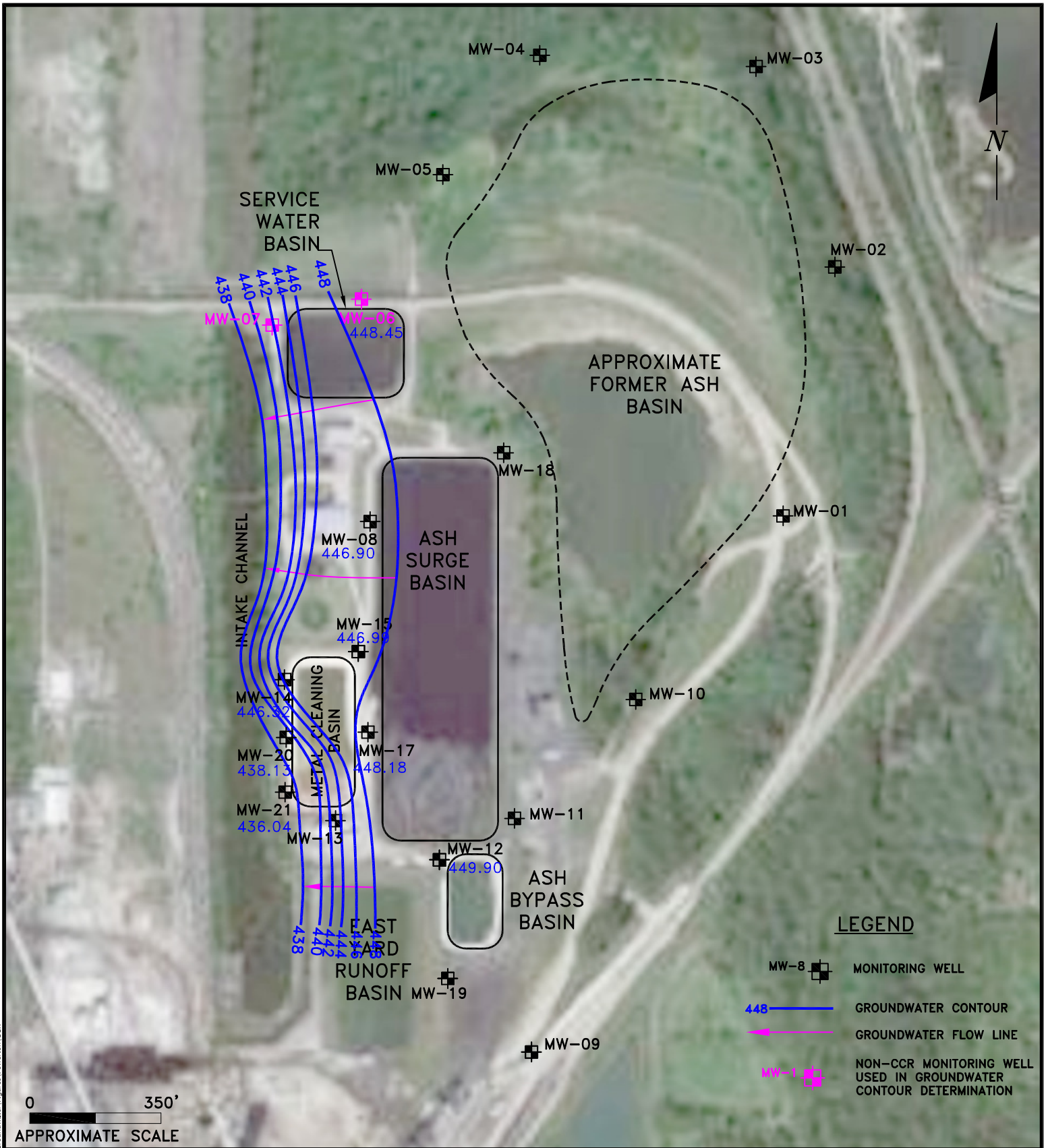
POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350'

Date: June 10, 2021

KPRG Project No. 12313.1

FIGURE 3



LEGEND

- MW-8 MONITORING WELL
- 448 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE
- MW-1 NON-CCR MONITORING WELL USED IN GROUNDWATER CONTOUR DETERMINATION

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CCR GROUNDWATER CONTOUR MAP FOR SILT/CLAY UNIT 08/2021

POWERTON STATION
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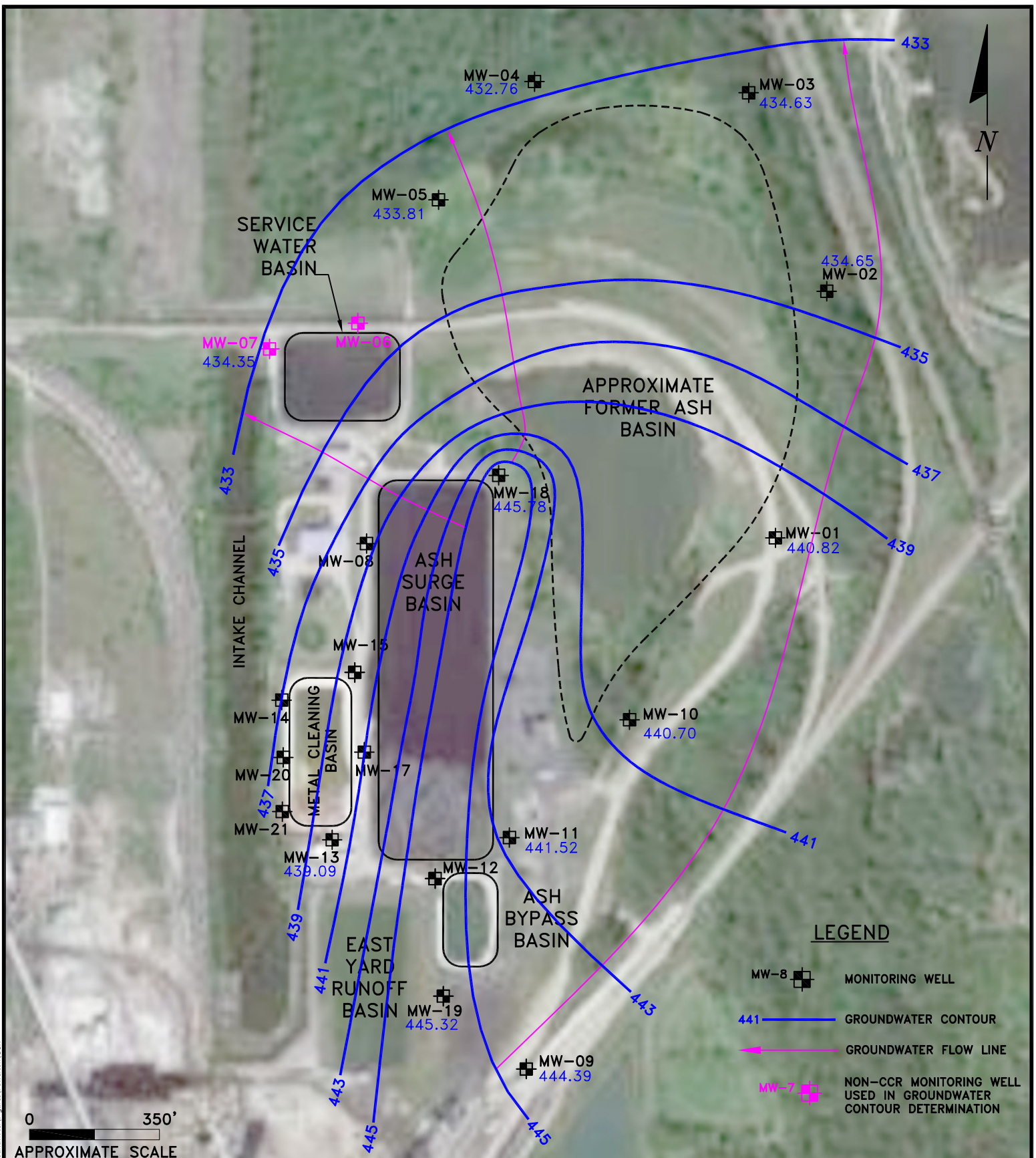
14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

Scale: 1" = 350'

Date: January 07, 2022

KPRG Project No. 12313.1

FIGURE 4



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CCR GROUNDWATER CONTOUR MAP FOR GRAVELLY SAND UNIT 08/2021

POWERTON STATION
PEKIN, ILLINOIS

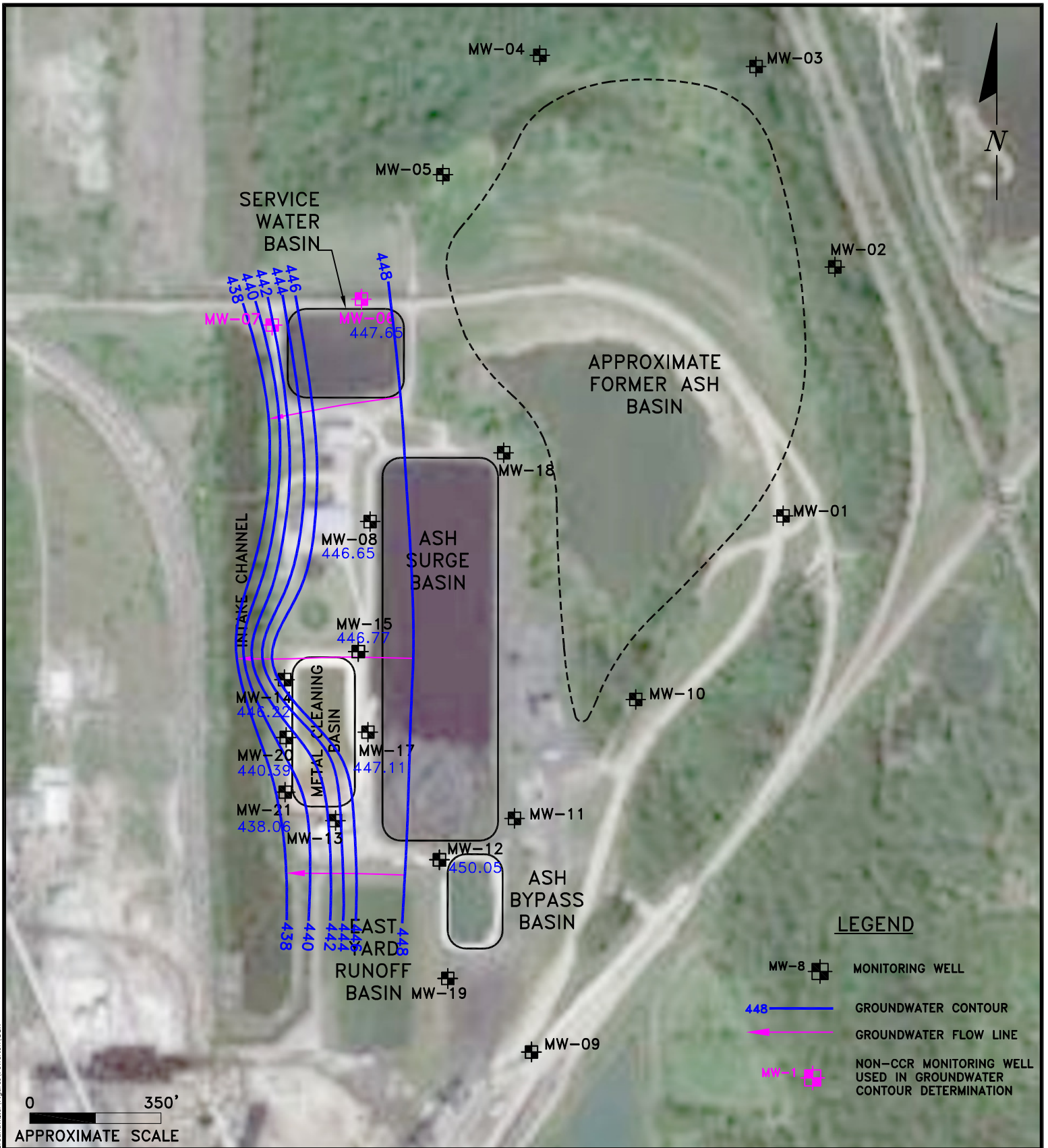
Scale: 1" = 350'

Date: January 07, 2022

KPRG Project No. 12313.1

FIGURE 5

T:\Projects\Midwest Generation\12313.1 Ash Pond Groundwater\Figures\PowerTon\CCR



0 350'
APPROXIMATE SCALE

LEGEND

- MW-8 MONITORING WELL
- 448 GROUNDWATER CONTOUR
- GROUNDWATER FLOW LINE
- MW-1 NON-CCR MONITORING WELL USED IN GROUNDWATER CONTOUR DETERMINATION

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CCR GROUNDWATER CONTOUR MAP FOR SILT/CLAY UNIT 11/2021

POWERTON STATION
PEKIN, ILLINOIS

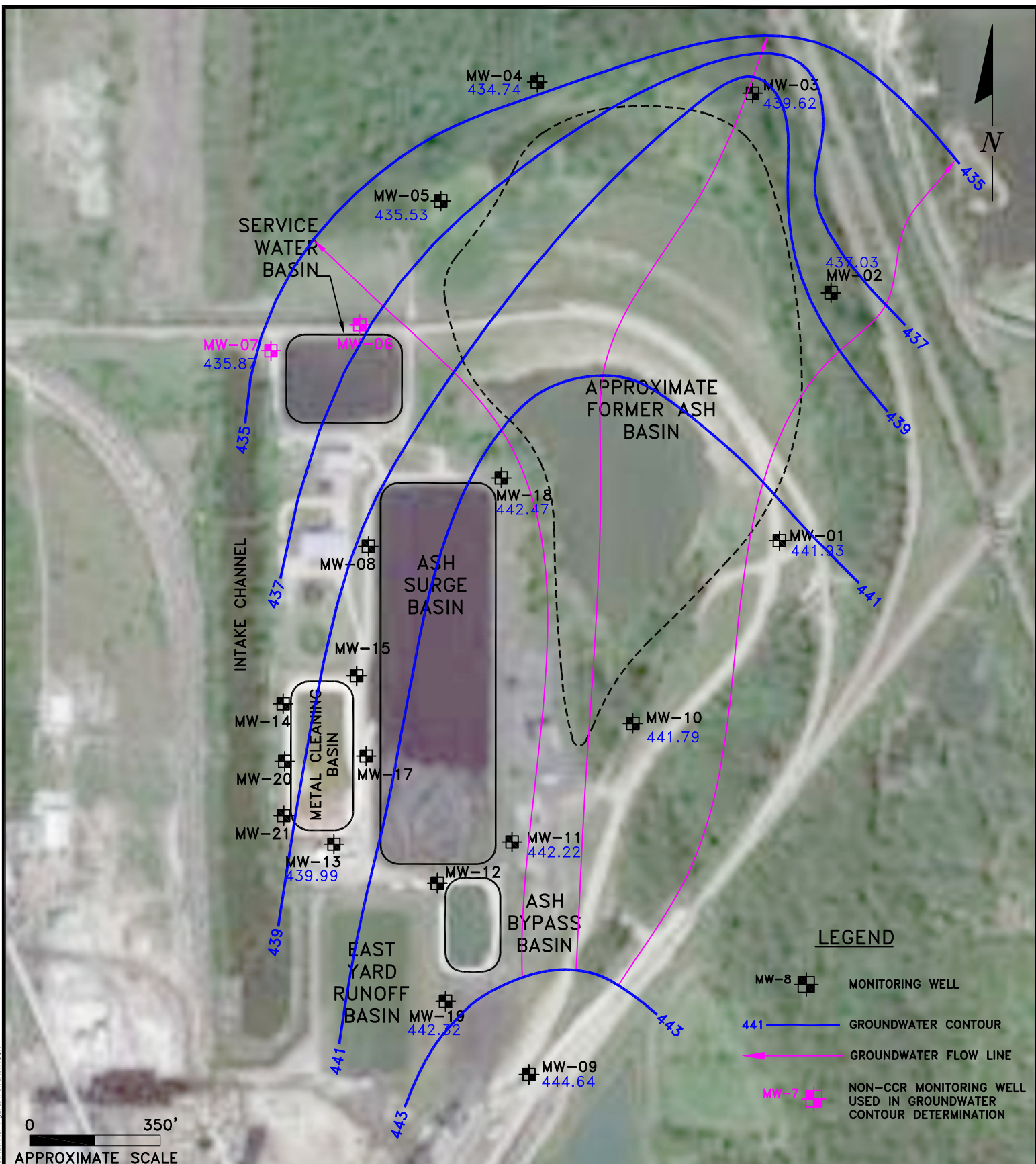
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

Scale: 1" = 350' Date: January 07, 2022

KPRG Project No. 12313.1 FIGURE 6

The Projects Midwest Generation 12313 Ash Pond Groundwater Figures, Powerton CCR



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**CCR GROUNDWATER CONTOUR MAP
GRAVELLY SAND UNIT 11/2021**

**POWERTON STATION
PEKIN, ILLINOIS**

Scale: 1" = 350'

Date: January 07, 2022

KPRG Project No. 12313.1

FIGURE 7

T:\Projects\Midwest Generation\12313.1 Ash Pond Groundwater\Figures\PowerTon\CCR

TABLES

Table 1. Groundwater Elevations - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-01	11/16/2015	465.24	26.04	439.20
	2/22/2016	465.24	21.90	443.34
	5/16/2016	465.24	21.83	443.41
	8/15/2016	465.24	23.89	441.35
	11/14/2016	465.24	23.38	441.86
	2/13/2017	465.24	21.71	443.53
	5/1/2017	465.24	18.87	446.37
	6/20/2017	465.24	21.54	443.70
	8/25/2017	465.24	24.70	440.54
	11/8/2017	465.24	24.92	440.32
	5/17/2018	465.24	22.66	442.58
	8/8/2018	465.24	26.05	439.19
	10/30/2018	465.24	24.69	440.55
	4/29/2019	465.24	20.15	445.09
	11/11/2019	465.24	19.49	445.75
	4/27/2020	465.24	20.90	444.34
	12/7/2020	465.24	25.69	439.55
	2/22/2021	465.24	25.18	440.06
	4/7/2021	465.24	22.20	443.04
	5/10/2021	465.24	23.41	441.83
	6/2/2021	465.24	22.00	443.24
	6/28/2021	465.24	23.18	442.06
	7/19/2021	465.24	20.43	444.81
	8/23/2021	465.24	24.42	440.82
9/30/2021	465.24	26.89	438.35	
10/27/2021	465.24	24.53	440.71	
11/29/2021	465.24	23.31	441.93	
12/30/2021	465.24	24.31	440.93	
MW-08	11/16/2015	471.75	26.06	445.69
	2/22/2016	471.75	23.99	447.76
	5/16/2016	471.75	25.48	446.27
	8/15/2016	471.75	23.61	448.14
	11/14/2016	471.75	24.31	447.44
	2/13/2017	471.75	23.97	447.78
	5/1/2017	471.75	23.28	448.47
	6/20/2017	471.75	23.31	448.44
	8/29/2017	471.75	24.52	447.23
	11/8/2017	471.75	25.27	446.48
	5/17/2018	471.75	24.36	447.39
	8/8/2018	471.75	24.04	447.71
	10/31/2018	471.75	24.92	446.83
	4/29/2019	471.75	24.28	447.47
	11/11/2019	471.75	24.24	447.51
	4/27/2020	471.75	24.50	447.25
	12/7/2020	471.75	25.35	446.40
	2/22/2021	471.75	24.70	447.05
	4/7/2021	471.75	24.88	446.87
	5/10/2021	471.75	24.75	447.00
	6/2/2021	471.75	24.25	447.50
	6/28/2021	471.75	24.79	446.96
	7/19/2021	471.75	24.33	447.42
	8/23/2021	471.75	24.85	446.90
9/30/2021	471.75	25.28	446.47	
10/25/2021	471.75	25.30	446.45	
11/29/2021	471.75	25.10	446.65	
12/30/2021	471.75	25.52	446.23	

Table 1. Groundwater Elevations - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-09	11/16/2015	469.14	26.07	443.07
	2/22/2016	469.14	22.83	446.31
	5/16/2016	469.14	23.06	446.08
	8/15/2016	469.14	24.50	444.64
	11/14/2016	469.14	24.33	444.81
	2/13/2017	469.14	23.43	445.71
	5/1/2017	469.14	20.77	448.37
	6/20/2017	469.14	22.15	446.99
	8/25/2017	469.14	24.79	444.35
	11/8/2017	469.14	25.74	443.40
	5/16/2018	469.14	23.89	445.25
	8/8/2018	469.14	25.49	443.65
	11/1/2018	469.14	26.02	443.12
	4/29/2019	469.14	21.30	447.84
	11/11/2019	469.14	21.31	447.83
	4/27/2020	469.14	21.80	447.34
	12/7/2020	469.14	26.19	442.95
	2/22/2021	469.14	26.08	443.06
	4/7/2021	469.14	23.75	445.39
	5/10/2021	469.14	24.55	444.59
6/2/2021	469.14	23.31	445.83	
6/28/2021	469.14	24.18	444.96	
7/19/2021	469.14	22.20	446.94	
8/23/2021	469.14	24.75	444.39	
9/30/2021	469.14	26.28	442.86	
10/25/2021	469.14	25.42	443.72	
11/29/2021	469.14	24.50	444.64	
12/30/2021	469.14	25.35	443.79	
MW-11	11/16/2015	471.62	31.67	439.95
	2/22/2016	471.62	28.34	443.28
	5/16/2016	471.62	27.11	444.51
	8/15/2016	471.62	29.64	441.98
	11/14/2016	471.62	29.19	442.43
	2/13/2017	471.62	27.49	444.13
	5/1/2017	471.62	24.34	447.28
	6/20/2017	471.62	26.94	444.68
	8/29/2017	471.62	30.42	441.20
	11/9/2017	471.62	30.27	441.35
	5/16/2018	471.62	28.58	443.04
	8/9/2018	471.62	31.04	440.58
	11/1/2018	471.62	30.82	440.80
	4/29/2019	471.62	25.38	446.24
	11/11/2019	471.62	24.88	446.74
	4/27/2020	471.62	26.35	445.27
	12/7/2020	471.62	31.35	440.27
	2/22/2021	471.62	30.78	440.84
	4/7/2021	471.62	27.85	443.77
	5/10/2021	471.62	29.19	442.43
6/2/2021	471.62	27.57	444.05	
6/28/2021	471.62	28.84	442.78	
7/19/2021	471.62	25.82	445.80	
8/23/2021	471.62	30.10	441.52	
9/30/2021	471.62	31.78	439.84	
10/25/2021	471.62	30.12	441.50	
11/29/2021	471.62	29.40	442.22	
12/30/2021	471.62	30.22	441.40	

Table 1. Groundwater Elevations - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-12	11/16/2015	473.38	24.48	448.90
	2/22/2016	473.38	21.41	451.97
	5/16/2016	473.38	22.94	450.44
	8/15/2016	473.38	23.85	449.53
	11/14/2016	473.38	23.89	449.49
	2/13/2017	473.38	21.93	451.45
	5/1/2017	473.38	22.26	451.12
	6/20/2017	473.38	22.76	450.62
	8/26/2017	473.38	23.92	449.46
	11/10/2017	473.38	24.29	449.09
	5/16/2018	473.38	22.46	450.92
	8/9/2018	473.38	23.78	449.60
	11/1/2018	473.38	23.74	449.64
	4/29/2019	473.38	22.05	451.33
	11/11/2019	473.38	22.85	450.53
	4/27/2020	473.38	21.44	451.94
	12/7/2020	473.38	22.70	450.68
	2/22/2021	473.38	21.00	452.38
	4/7/2021	473.38	21.91	451.47
	5/10/2021	473.38	22.50	450.88
	6/2/2021	473.38	22.60	450.78
	6/28/2021	473.38	22.95	450.43
	7/19/2021	473.38	22.99	450.39
	8/23/2021	473.38	23.48	449.90
9/30/2021	473.38	23.87	449.51	
10/27/2021	473.38	23.90	449.48	
11/29/2021	473.38	23.33	450.05	
12/30/2021	473.38	22.95	450.43	
MW-15	11/16/2015	471.37	25.33	446.04
	2/22/2016	471.37	22.91	448.46
	5/16/2016	471.37	24.71	446.66
	8/15/2016	471.37	23.45	447.92
	11/14/2016	471.37	23.94	447.43
	2/13/2017	471.37	23.73	447.64
	5/1/2017	471.37	23.27	448.10
	6/20/2017	471.37	22.86	448.51
	8/29/2017	471.37	23.13	448.24
	11/10/2017	471.37	25.13	446.24
	5/17/2018	471.37	23.85	447.52
	8/9/2018	471.37	23.96	447.41
	10/31/2018	471.37	24.55	446.82
	4/29/2019	471.37	23.57	447.80
	11/11/2019	471.37	23.79	447.58
	4/27/2020	471.37	23.95	447.42
	12/7/2020	471.37	25.01	446.36
	2/22/2021	471.37	27.74	443.63
	4/7/2021	471.37	24.44	446.93
	5/10/2021	471.37	24.62	446.75
	6/2/2021	471.37	24.12	447.25
	6/28/2021	471.37	24.19	447.18
	7/19/2021	471.37	24.01	447.36
	8/23/2021	471.37	24.38	446.99
9/30/2021	471.37	24.91	446.46	
10/25/2021	471.37	24.92	446.45	
11/29/2021	471.37	24.60	446.77	
12/30/2021	471.37	24.90	446.47	

Table 1. Groundwater Elevations - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-17	11/16/2015	467.75	26.92	440.83
	2/22/2016	467.75	19.86	447.89
	5/16/2016	467.75	20.42	447.33
	8/15/2016	467.75	21.61	446.14
	11/14/2016	467.75	21.39	446.36
	2/13/2017	467.75	19.66	448.09
	5/1/2017	467.75	18.78	448.97
	6/20/2017	467.75	19.42	448.33
	8/29/2017	467.75	22.68	445.07
	11/6/2017	467.75	24.66	443.09
	5/14/2018	467.75	19.79	447.96
	8/6/2018	467.75	21.03	446.72
	10/29/2018	467.75	21.98	445.77
	4/29/2019	467.75	18.75	449.00
	11/11/2019	467.75	19.60	448.15
	4/27/2020	467.75	19.15	448.60
	12/7/2020	467.75	24.12	443.63
	2/22/2021	467.75	20.22	447.53
	4/7/2021	467.75	19.69	448.06
	5/10/2021	467.75	20.00	447.75
6/2/2021	467.75	19.65	448.10	
6/28/2021	467.75	19.98	447.77	
7/19/2021	467.75	19.57	448.18	
8/23/2021	467.75	20.15	447.60	
9/30/2021	467.75	23.25	444.50	
10/28/2021	467.75	23.35	444.40	
11/29/2021	467.75	20.64	447.11	
12/30/2021	467.75	22.61	445.14	
MW-18	11/16/2015	469.28	28.42	440.86
	2/22/2016	469.28	27.96	441.32
	5/16/2016	469.28	25.57	443.71
	8/15/2016	469.28	27.86	441.42
	11/14/2016	469.28	27.39	441.89
	2/13/2017	469.28	25.06	444.22
	5/1/2017	469.28	22.49	446.79
	6/20/2017	469.28	24.97	444.31
	8/28/2017	469.28	27.30	441.98
	11/6/2017	469.28	26.33	442.95
	5/14/2018	469.28	24.65	444.63
	8/6/2018	469.28	25.67	443.61
	10/29/2018	469.28	25.79	443.49
	4/29/2019	469.28	23.00	446.28
	11/11/2019	469.28	23.94	445.34
	4/27/2020	469.28	23.97	445.31
	12/7/2020	469.28	27.82	441.46
	2/22/2021	469.28	26.69	442.59
	4/7/2021	469.28	24.94	444.34
	5/10/2021	469.28	25.96	443.32
6/2/2021	469.28	24.70	444.58	
6/28/2021	469.28	25.60	443.68	
7/19/2021	469.28	23.50	445.78	
8/23/2021	469.28	27.35	441.93	
9/30/2021	469.28	29.70	439.58	
10/25/2021	469.28	27.35	441.93	
11/29/2021	469.28	26.81	442.47	
12/30/2021	469.28	27.14	442.14	

Table 1. Groundwater Elevations - Midwest Generation, LLC, Powerton Station, Pekin, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-19	11/14/2016	465.07	22.65	442.42
	2/13/2017	465.07	21.27	443.80
	5/1/2017	465.07	18.39	446.68
	6/20/2017	465.07	20.44	444.63
	8/28/2017	465.07	23.60	441.47
	11/9/2017	465.07	23.80	441.27
	5/14/2018	465.07	22.08	442.99
	8/6/2018	465.07	24.14	440.93
	10/29/2018	465.07	24.31	440.76
	4/29/2019	465.07	19.12	445.95
	11/11/2019	465.07	18.80	446.27
	4/27/2020	465.07	19.94	445.13
	12/7/2020	465.07	24.63	440.44
	2/22/2021	465.07	24.23	440.84
	4/7/2021	465.07	21.60	443.47
	5/10/2021	465.07	22.75	442.32
	6/2/2021	465.07	21.24	443.83
	6/28/2021	465.07	22.41	442.66
	7/19/2021	465.07	19.75	445.32
	8/23/2021	465.07	23.31	441.76
9/30/2021	465.07	24.85	440.22	
10/27/2021	465.07	23.36	441.71	
11/29/2021	465.07	22.75	442.32	
12/30/2021	465.07	23.65	441.42	

MSL - Mean Sea Level
 TOC - Top of Casing

Table 2. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Powerton Generation Station ABB/ASB

DATE	Screened Unit	Groundwater Flow Direction	Kavg (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
11/16/2015	Silt/clay	Westerly	3.280E-07	0.0093	0.4	0.001
11/16/2015	Sandy	North-Northwest	3.810E-03	0.0026	0.35	2.40
2/22/2016	Silt/clay	Westerly	3.280E-07	0.0098	0.4	0.001
2/22/2016	Sandy	North-Northwest	3.810E-03	0.0030	0.35	2.82
5/16/2016	Silt/clay	Westerly	3.280E-07	0.0124	0.4	0.001
5/16/2016	Sandy	North-Northwest	3.810E-03	0.0021	0.35	1.98
8/15/2016	Silt/clay	Westerly	3.280E-07	0.0093	0.4	0.001
8/15/2016	Sandy	North-Northwest	3.810E-03	0.0014	0.35	1.32
11/14/2016	Silt/clay	Westerly	3.280E-07	0.0083	0.4	0.001
11/14/2016	Sandy	North-Northwest	3.810E-03	0.0014	0.35	1.32
2/13/2017	Silt/clay	Westerly	3.280E-07	0.0091	0.4	0.001
2/13/2017	Sandy	Northeasterly - Northwest	3.810E-03	0.0049	0.35	4.61
5/1/2017	Silt/clay	Westerly	3.280E-07	0.0100	0.4	0.001
5/1/2017	Sandy	Northeasterly - Northwest	3.810E-03	0.0021	0.35	1.98
6/20/2017	Silt/clay	Westerly	3.280E-07	0.0088	0.4	0.001
6/20/2017	Sandy	Northeasterly - Northwest	3.810E-03	0.0057	0.35	5.36
8/25/2017	Silt/clay	Westerly	3.280E-07	0.0214	0.4	0.002
8/25/2017	Sandy	North-Northwest	3.810E-03	0.0174	0.35	16.37
11/8/2017	Silt/clay	Westerly	3.280E-07	0.0267	0.4	0.002
11/8/2017	Sandy	North-Northwest	3.810E-03	0.0157	0.35	14.77
5/17/2018	Silt/clay	Westerly	3.280E-07	0.0070	0.4	0.0005
5/17/2018	Sandy	North-Northwest	3.810E-03	0.0042	0.35	3.95
8/7/2018	Silt/clay	Westerly	3.280E-07	0.0263	0.4	0.002
8/7/2018	Sandy	North-Northwest	3.810E-03	0.0037	0.35	3.48
4/29/2019	Silt/clay	Westerly	3.280E-07	0.0129	0.4	0.0009
4/29/2019	Sandy	North-Northwest	3.810E-03	0.0022	0.35	2.07
11/11/2019	Silt/clay	Westerly	3.280E-07	0.0114	0.4	0.0008
11/11/2019	Sandy	North-Northwest	3.810E-03	0.0008	0.35	0.75
4/27/2020	Silt/clay	Westerly	3.280E-07	0.0114	0.4	0.0008
4/27/2020	Sandy	Northeasterly - Northwest	3.810E-03	0.0023	0.35	2.16
12/7/2020	Silt/clay	Westerly	3.280E-07	0.0137	0.4	0.0010
12/7/2020	Sandy	Northeasterly - Northwest	3.810E-03	0.0037	0.35	3.48
5/10/2021	Silt/clay	Westerly	3.280E-07	0.0276	0.4	0.0020
5/10/2021	Sandy	North-Northwest	1.390E-03	0.0036	0.35	1.24
8/23/2021	Silt/clay	Westerly	3.280E-07	0.0350	0.4	0.0025
8/23/2021	Sandy	Northeasterly - Northwest	1.390E-03	0.0117	0.35	4.01
11/29/2021	Silt/clay	Westerly	3.280E-07	0.0230	0.4	0.0016
11/29/2021	Sandy	Northeasterly - Northwest	1.390E-03	0.0033	0.35	1.13

* Kavg - Pre-2021 K Values from Hydrologic Assessment Report, Patrick Engineering, February 2011. 2021 K values from re-evaluation of slug test data as part of groundwater modeling in support of Application for Construction Permit per Illinois State CCR Rule.
Average hydraulic conductivity for silt/clay unit (feet/second) from Groundwater, Freeze and Cherry, 1979.

** - Porosity estimates from Applied Hydrogeology, Fetter, 1980.

Table 3. CCR Groundwater Sample Collection Summary for 2021 - Powerton Generating Station Ash Bypass Basin & Ash Surge Basin

Well ID	Number of Groundwater Sampling Events	Dates of Groundwater Sampling Events	Detection Monitoring (D) versus Assessment Monitoring (A)
MW-01 (Upgradient)	3	5/11/2021	A
		8/24/2021	A
		11/30/2021	A
MW-09 (Upgradient)	3	5/13/2021	A
		8/25/2021	A
		12/1/2021	A
MW-19 (Upgradient)	3	5/10/2021	A
		8/26/2021	A
		12/1/2021	A
MW-08 (Downgradient)	3	5/11/2021	A
		8/25/2021	A
		12/1/2021	A
MW-11 (Downgradient)	3	5/11/2021	A
		8/25/2021	A
		12/1/2021	A
MW-12 (Downgradient)	3	5/13/2021	A
		8/25/2021	A
		12/1/2021	A
MW-15 (Downgradient)	3	5/12/2021	A
		8/23/2021	A
		11/29/2021	A
MW-17 (Downgradient)	3	5/12/2021	A
		8/23/2021	A
		11/29/2021	A
MW-18 (Downgradient)	3	5/10/2021	A
		8/26/2021	A
		12/1/2021	A

Table 4. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash By-Pass Basin Ash Surge Basin.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids				
MW-01 (S) up-gradient	11/16/2015	1.0	98	44	0.17	7.07	93	530				
	2/25/2016	0.2	110	42	0.16	7.23	54	460				
	5/20/2016	0.34	100	44	0.17	6.95	65	430				
	8/17/2016	0.27	78	39	0.25	7.16	50	530				
	11/16/2016	0.18	97	39	0.21	7.22	32	500				
	2/14/2017	0.18	120	55	0.17	7.30	60	550				
	5/3/2017	0.19	86	66	0.16	7.41	45	460				
	6/21/2017	0.18	85	58	0.18	7.60	47	540				
	Pred. Limit*	1.0	142	81	0.25	7.90-6.58	115	648				
	8/25/2017	0.56	86	41	0.18	7.41	63	490				
	11/8/2017	0.57	130	38	0.12	6.69	61	640				
	5/17/2018	0.15	88	50	0.12	6.7	48	540				
	8/8/2018	0.14	86	48	0.13	6.8	43	430				
	4/30/2019	0.07	78	54	0.17	7.2	27	450				
	11/13/2019	0.52	95	47	0.18	7.51	41	390				
	4/28/2020	0.33	110	46	0.19	7.17	41	470				
	12/7/2020	0.6	100	54	0.25	7.22	55	490				
	5/11/2021	0.23	84	53	0.2	7.52	38	450				
	8/24/2021	0.26	98	40	0.18	7.19	56	450				
	11/30/2021	0.33	97	42	0.2	7.14	28	410				
MW-09 (S) up-gradient	11/18/2015	2.0	63	H	0.19	7.15	H	440				
	2/25/2016	2.3	77	36	0.19	7.34	120	500				
	5/19/2016	2.0	73	38	0.17	7.30	100	520				
	8/17/2016	2.7	74	39	0.15	7.32	120	750				
	11/17/2016	4.5	85	38	0.13	7.37	110	630				
	2/15/2017	4.1	84	38	0.13	6.94	160	620				
	5/3/2017	3.5	85	38	0.17	7.48	170	680				
	6/21/2017	3.3	82	38	0.14	7.63	180	760				
	Pred. Limit*	6.19	103	39	0.24	7.99-6.64	236	1000				
	8/25/2017	3.8	85	36	0.14	7.30	150	630				
	11/8/2017	4	89	37	0.13	6.92	190	650				
	5/16/2018	4.1	89	36	0.15	7.83	180	550				
	8/8/2018	4.3	86	39	0.14	7.31	180	690				
	5/1/2019	4.6	79	37	0.17	7.11	170	640				
	11/14/2019	2.5	85	36	0.18	7.49	82	500				
	4/29/2020	2	71	34	0.2	7.19	140	510				
	12/8/2020	2.6	65	34	0.22	7.29	63	400				
	5/13/2021	2	74	33	0.2	7.33	120	410				
	8/25/2021	2.2	80	32	0.17	7.11	130	420				
	12/1/2021	3.2	79	32	0.2	7.22	100	570				
MW-19 ^a (S) up-gradient	11/18/2016	3.8	89	38	0.13	7.34	120	670				
	2/15/2017	4.7	88	37	0.13	7.50	180	630				
	5/5/2017	3.3	88	38	0.14	7.51	160	640				
	6/21/2017	2.3	110	35	0.12	7.30	170	690				
	8/28/2017	3.5	97	36	0.16	7.20	160	700				
	11/6/2017	4.5	86	35	0.17	7.26	190	640				
	5/14/2018	4.1	96	35	0.16	7.92	180	820				
	8/6/2018	3.8	100	37	0.13	7.57	170	720				
	Pred. Limit*	6.2	121	41	0.20	8.20-6.70	236	890				
	5/2/2019	3.7	100	39	0.13	6.86	160	700				
	11/13/2019	2.5	130	52	0.15	7.51	140	740				
	4/27/2020	2.3	100	43	0.17	6.87	110	570				
	12/7/2020	3.3	74	34	0.19	7.30	FI	76	420			
	5/10/2021	2.3	68	33	0.17	7.36	110	420				
	8/26/2021	2.1	85	32	0.11	7.12	130	320				
	12/1/2021	3.5	89	31	0.17	7.25	120	620				
MW-08 (CL) down-gradient	11/18/2015	1.5	160	H	170	H	0.44	7.61	H	470	H	1300
	2/25/2016	1.7	160	200	0.30	7.00	280	1100				
	5/18/2016	1.7	160	140	0.34	7.67	300	1200				
	8/17/2016	1.0	150	230	0.35	7.33	360	1400				
	11/15/2016	1.2	140	290	0.33	6.90	230	1300				
	2/16/2017	1.5	150	460	0.28	7.00	230	1500				
	5/2/2017	0.55	140	300	0.33	7.30	320	1300				
	6/21/2017	1.2	160	490	0.30	7.27	350	1700				
	Pred. Limit	1.0	136	77	0.24**	7.73-6.83**	107	788**				
	8/29/2017	1.2	150	360	0.47	7.29	300	1500				
	11/8/2017	0.68	130	260	0.45	7.27	270	1200				
	5/17/2018	1.2	130	200	0.37	6.79	170	1000				
	8/8/2018	1.1	140	270	0.32	6.93	190	1200				
	5/1/2019	0.54	95	73	0.35	7.60	85	600				
	11/13/2019	0.98	110	92	0.33	7.66	110	640				
	4/28/2020	0.74	110	120	0.38	7.58	58	660				
	12/14/2020	0.73	120	150	0.38	7.40	92	530				
	5/11/2021	0.54	97	120	0.39	7.64	110	680				
8/25/2021	0.6	100	110	0.35	7.28	100	550					
12/1/2021	0.64	110	97	0.36	7.50	66	690					

Notes: All units are in mg/l except pH is in standard units. **Bold** - Potential statistically significant increase.
 Pred. Limit - Prediction Limit **FI** - MS and/or MSD Recovery outside of limits.
 (S) - Sandy Unit **H** - Sample was peeped or analyzed beyond the specified holding time.
 (CL) - Silty Clay Unit **V** - Serial dilution exceeds control limits.
 * - In-travel Prediction Limit. All others are interwell comparisons.
 ** - Based on pooled background from MW-01/MW-09. All others based on MW-01 as background.
 ^ - Recently installed upgradient well. Insufficient rounds of sampling for statistical evaluation at this time.
 Italics Date - First round of Detection Monitoring and resample after statistical background establishment.

Table 5. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Ash By-Pass Basin Ash Surge Basin.

Table with columns for Well, Date, and various analytes: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Radium 226 + 228, Selenium, and Thallium. Data includes multiple rows for wells MW-01, MW-09, MW-19, and MW-08, with values ranging from <0.001 to 0.884.

Notes: All units are in mg/l except Radium is in pCi/L as noted.
Italic - Assessment Monitoring Conducted After Identification of Detected Appendix IV Compounds.
GWPS - Groundwater Protection Standard
BOLD - Exceeds established GWPS.

F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
(R) - Resample Event
^ - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
DNVA - Data Not Yet Available

NS - No Standard calculated

Appendix A
Analytical Data Packages from 2021 Assessment Monitoring

ANALYTICAL REPORT

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

Laboratory Job ID: 500-198952-1
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
6/2/2021 10:56:16 AM

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

LINKS

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results through
TotalAccess

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

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

Job ID: 500-198952-1

Job ID: 500-198952-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

**Job Narrative
500-198952-1**

Comments

No additional comments.

Receipt

The samples were received on 5/11/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 0.3° C, 0.4° C, 1.0° C, 1.1° C, 1.1° C, 1.1° C, 3.4° C, 4.1° C and 5.3° C.

Metals

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

General Chemistry

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

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Detection Summary

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

Job ID: 500-198952-1

Client Sample ID: MW-18

Lab Sample ID: 500-198952-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013		0.010		mg/L	1		6010C	Total Recoverable
Barium	0.12		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.66		0.10		mg/L	2		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0050		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	880		10		mg/L	1		SM 2540C	Total/NA
Chloride	140		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.66		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	350		100		mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 500-198952-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.060		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.3		0.25		mg/L	5		6020A	Total Recoverable
Calcium	68		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.047		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	420		10		mg/L	1		SM 2540C	Total/NA
Chloride	33		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.17		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	110		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: Duplicate

Lab Sample ID: 500-198952-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.010		mg/L	1		6010C	Total Recoverable
Barium	0.13		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.60		0.050		mg/L	1		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.0064		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Total/NA
Chloride	140		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.68		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	350		100		mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-08

Lab Sample ID: 500-198952-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.021		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0020		0.0010		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-198952-1

Client Sample ID: MW-08 (Continued)

Lab Sample ID: 500-198952-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.092		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.54		0.050		mg/L	1		6020A	Total Recoverable
Calcium	97		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.011		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	680		10		mg/L	1		SM 2540C	Total/NA
Chloride	120		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.39		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	110		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-01

Lab Sample ID: 500-198952-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.043		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.23		0.050		mg/L	1		6020A	Total Recoverable
Calcium	84		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.010		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	450		10		mg/L	1		SM 2540C	Total/NA
Chloride	53		4.0		mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	38		10		mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-15

Lab Sample ID: 500-198952-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.026		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0048		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.065		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.3		0.050		mg/L	1		6020A	Total Recoverable
Calcium	180		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.014		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.0071		0.0025		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1500		10		mg/L	1		SM 2540C	Total/NA
Chloride	180		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.54		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	520		100		mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 500-198952-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.018		0.010		mg/L	1		6010C	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-198952-1

Client Sample ID: MW-17 (Continued)

Lab Sample ID: 500-198952-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0053		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.027		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.99		0.050		mg/L	1		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.049		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	1200		10		mg/L	1		SM 2540C	Total/NA
Chloride	160		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.77		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	480		100		mg/L	20		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 500-198952-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.035		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.0		0.050		mg/L	1		6020A	Total Recoverable
Calcium	74		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.025		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	410		10		mg/L	1		SM 2540C	Total/NA
Chloride	33		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.20		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	120		25		mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 500-198952-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.012		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.024		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.25		0.0025		mg/L	1		6020A	Total Recoverable
Boron	1.0		0.050		mg/L	1		6020A	Total Recoverable
Calcium	99		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0019		0.0010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.032		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	820		10		mg/L	1		SM 2540C	Total/NA
Chloride	130		6.0		mg/L	3		SM 4500 Cl- E	Total/NA
Fluoride	0.72		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	230		25		mg/L	5		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-198952-1

Client Sample ID: MW-12

Lab Sample ID: 500-198952-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.017		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.0025		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.058		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.40		0.050		mg/L	1		6020A	Total Recoverable
Calcium	89		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.016		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	990		10		mg/L	1		SM 2540C	Total/NA
Chloride	140		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.23		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	350		100		mg/L	20		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Method Summary

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

Job ID: 500-198952-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-198952-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198952-1	MW-18	Water	05/10/21 14:11	05/11/21 14:55	
500-198952-2	MW-19	Water	05/10/21 15:16	05/11/21 14:55	
500-198952-3	Duplicate	Water	05/10/21 00:00	05/11/21 14:55	
500-198952-4	MW-08	Water	05/11/21 15:41	05/12/21 14:55	
500-198952-5	MW-01	Water	05/11/21 13:06	05/12/21 14:55	
500-198952-6	MW-15	Water	05/12/21 10:31	05/13/21 13:40	
500-198952-7	MW-17	Water	05/12/21 09:04	05/13/21 13:40	
500-198952-8	MW-09	Water	05/13/21 13:00	05/14/21 09:25	
500-198952-9	MW-11	Water	05/13/21 11:46	05/14/21 09:25	
500-198952-10	MW-12	Water	05/13/21 10:50	05/14/21 09:25	



Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-18

Lab Sample ID: 500-198952-1

Date Collected: 05/10/21 14:11

Matrix: Water

Date Received: 05/11/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.013		0.010		mg/L		05/14/21 08:28	05/14/21 18:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:50	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:50	1
Barium	0.12		0.0025		mg/L		05/14/21 08:28	05/17/21 17:50	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:50	1
Boron	0.66		0.10		mg/L		05/14/21 08:28	05/18/21 13:48	2
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:50	1
Calcium	130		0.20		mg/L		05/14/21 08:28	05/17/21 17:50	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:50	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:50	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:50	1
Molybdenum	0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:50	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:50	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	880		10		mg/L			05/13/21 06:09	1
Chloride	140		10		mg/L			06/01/21 15:43	5
Fluoride	0.66		0.10		mg/L			05/27/21 08:12	1
Sulfate	350		100		mg/L			06/01/21 14:09	20

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-19

Lab Sample ID: 500-198952-2

Date Collected: 05/10/21 15:16

Matrix: Water

Date Received: 05/11/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:54	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:54	1
Barium	0.060		0.0025		mg/L		05/14/21 08:28	05/17/21 17:54	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:54	1
Boron	2.3		0.25		mg/L		05/14/21 08:28	05/18/21 13:52	5
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:54	1
Calcium	68		0.20		mg/L		05/14/21 08:28	05/17/21 17:54	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:54	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:54	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:54	1
Molybdenum	0.047		0.0050		mg/L		05/14/21 08:28	05/17/21 17:54	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:54	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		10		mg/L			05/13/21 06:11	1
Chloride	33		2.0		mg/L			06/01/21 15:44	1
Fluoride	0.17		0.10		mg/L			05/27/21 08:15	1
Sulfate	110		25		mg/L			06/01/21 14:02	5

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: Duplicate

Lab Sample ID: 500-198952-3

Date Collected: 05/10/21 00:00

Matrix: Water

Date Received: 05/11/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		05/14/21 08:28	05/14/21 18:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:04	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:04	1
Barium	0.13		0.0025		mg/L		05/14/21 08:28	05/17/21 18:04	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:04	1
Boron	0.60		0.050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Calcium	130		0.20		mg/L		05/14/21 08:28	05/17/21 18:04	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:04	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Molybdenum	0.0064		0.0050		mg/L		05/14/21 08:28	05/17/21 18:04	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 18:04	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/14/21 04:43	1
Chloride	140		10		mg/L			06/01/21 15:44	5
Fluoride	0.68		0.10		mg/L			05/27/21 08:18	1
Sulfate	350		100		mg/L			06/01/21 14:11	20

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-08

Lab Sample ID: 500-198952-4

Date Collected: 05/11/21 15:41

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		05/14/21 08:28	05/14/21 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:07	1
Arsenic	0.0020		0.0010		mg/L		05/14/21 08:28	05/17/21 18:07	1
Barium	0.092		0.0025		mg/L		05/14/21 08:28	05/17/21 18:07	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:07	1
Boron	0.54		0.050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Calcium	97		0.20		mg/L		05/14/21 08:28	05/17/21 18:07	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:07	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Molybdenum	0.011		0.0050		mg/L		05/14/21 08:28	05/17/21 18:07	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 18:07	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	680		10		mg/L			05/14/21 04:45	1
Chloride	120		10		mg/L			06/01/21 15:45	5
Fluoride	0.39		0.10		mg/L			05/27/21 08:21	1
Sulfate	110		25		mg/L			06/01/21 14:04	5

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-01

Lab Sample ID: 500-198952-5

Date Collected: 05/11/21 13:06

Matrix: Water

Date Received: 05/12/21 14:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 19:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:11	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:11	1
Barium	0.043		0.0025		mg/L		05/14/21 08:28	05/17/21 18:11	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:11	1
Boron	0.23		0.050		mg/L		05/14/21 08:28	05/17/21 18:11	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:11	1
Calcium	84		0.20		mg/L		05/14/21 08:28	05/17/21 18:11	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:11	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:11	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:11	1
Molybdenum	0.010		0.0050		mg/L		05/14/21 08:28	05/17/21 18:11	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 18:11	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	450		10		mg/L			05/14/21 04:48	1
Chloride	53		4.0		mg/L			06/01/21 15:45	2
Fluoride	0.20		0.10		mg/L			05/27/21 08:25	1
Sulfate	38		10		mg/L			06/01/21 14:04	2

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-15

Lab Sample ID: 500-198952-6

Date Collected: 05/12/21 10:31

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.026		0.010		mg/L		05/14/21 08:28	05/14/21 19:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:14	1
Arsenic	0.0048		0.0010		mg/L		05/14/21 08:28	05/17/21 18:14	1
Barium	0.065		0.0025		mg/L		05/14/21 08:28	05/17/21 18:14	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:14	1
Boron	1.3		0.050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Calcium	180		0.20		mg/L		05/14/21 08:28	05/17/21 18:14	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:14	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Molybdenum	0.014		0.0050		mg/L		05/14/21 08:28	05/17/21 18:14	1
Selenium	0.0071		0.0025		mg/L		05/14/21 08:28	05/17/21 18:14	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			05/18/21 00:21	1
Chloride	180		10		mg/L			06/01/21 15:45	5
Fluoride	0.54		0.10		mg/L			05/27/21 08:28	1
Sulfate	520		100		mg/L			06/01/21 14:14	20

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-17

Lab Sample ID: 500-198952-7

Date Collected: 05/12/21 09:04

Matrix: Water

Date Received: 05/13/21 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.018		0.010		mg/L		05/14/21 08:28	05/14/21 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 18:18	1
Arsenic	0.0053		0.0010		mg/L		05/14/21 08:28	05/17/21 18:18	1
Barium	0.027		0.0025		mg/L		05/14/21 08:28	05/17/21 18:18	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:18	1
Boron	0.99		0.050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Calcium	130		0.20		mg/L		05/14/21 08:28	05/17/21 18:18	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 18:18	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Molybdenum	0.049		0.0050		mg/L		05/14/21 08:28	05/17/21 18:18	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 18:18	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 18:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			05/18/21 00:23	1
Chloride	160		10		mg/L			06/01/21 15:46	5
Fluoride	0.77		0.10		mg/L			05/27/21 08:31	1
Sulfate	480		100		mg/L			06/01/21 14:07	20

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-09

Lab Sample ID: 500-198952-8

Date Collected: 05/13/21 13:00

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/21 08:28	05/19/21 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 18:08	1
Arsenic	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:08	1
Barium	0.035		0.0025		mg/L		05/19/21 08:28	05/19/21 18:08	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:08	1
Boron	2.0		0.050		mg/L		05/19/21 08:28	05/19/21 18:08	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:08	1
Calcium	74		0.20		mg/L		05/19/21 08:28	05/19/21 18:08	1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 18:08	1
Cobalt	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:08	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:08	1
Molybdenum	0.025		0.0050		mg/L		05/19/21 08:28	05/19/21 18:08	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 18:08	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 18:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		10		mg/L			05/19/21 05:27	1
Chloride	33		2.0		mg/L			06/01/21 15:46	1
Fluoride	0.20		0.10		mg/L			05/27/21 08:34	1
Sulfate	120		25		mg/L			06/01/21 14:08	5

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-11

Lab Sample ID: 500-198952-9

Date Collected: 05/13/21 11:46

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.010		mg/L		05/19/21 08:28	05/19/21 17:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 18:11	1
Arsenic	0.024		0.0010		mg/L		05/19/21 08:28	05/19/21 18:11	1
Barium	0.25		0.0025		mg/L		05/19/21 08:28	05/19/21 18:11	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:11	1
Boron	1.0		0.050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Calcium	99		0.20		mg/L		05/19/21 08:28	05/19/21 18:11	1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Cobalt	0.0019		0.0010		mg/L		05/19/21 08:28	05/19/21 18:11	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Molybdenum	0.032		0.0050		mg/L		05/19/21 08:28	05/19/21 18:11	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 18:11	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 18:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	820		10		mg/L			05/19/21 05:30	1
Chloride	130		6.0		mg/L			06/01/21 15:46	3
Fluoride	0.72		0.10		mg/L			05/27/21 08:37	1
Sulfate	230		25		mg/L			06/01/21 14:11	5

Client Sample Results

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

Job ID: 500-198952-1

Client Sample ID: MW-12

Lab Sample ID: 500-198952-10

Date Collected: 05/13/21 10:50

Matrix: Water

Date Received: 05/14/21 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.010		mg/L		05/19/21 08:28	05/19/21 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 18:15	1
Arsenic	0.0025		0.0010		mg/L		05/19/21 08:28	05/19/21 18:15	1
Barium	0.058		0.0025		mg/L		05/19/21 08:28	05/19/21 18:15	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:15	1
Boron	0.40		0.050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Calcium	89		0.20		mg/L		05/19/21 08:28	05/19/21 18:15	1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Cobalt	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 18:15	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Molybdenum	0.016		0.0050		mg/L		05/19/21 08:28	05/19/21 18:15	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 18:15	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 18:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	990		10		mg/L			05/19/21 05:32	1
Chloride	140		10		mg/L			06/01/21 15:47	5
Fluoride	0.23		0.10		mg/L			05/27/21 08:50	1
Sulfate	350		100		mg/L			06/01/21 14:12	20

Definitions/Glossary

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

Job ID: 500-198952-1

Qualifiers

General Chemistry

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

Glossary

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

QC Association Summary

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

Job ID: 500-198952-1

Metals

Prep Batch: 598871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total Recoverable	Water	3005A	
500-198952-2	MW-19	Total Recoverable	Water	3005A	
500-198952-3	Duplicate	Total Recoverable	Water	3005A	
500-198952-4	MW-08	Total Recoverable	Water	3005A	
500-198952-5	MW-01	Total Recoverable	Water	3005A	
500-198952-6	MW-15	Total Recoverable	Water	3005A	
500-198952-7	MW-17	Total Recoverable	Water	3005A	
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 599211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total Recoverable	Water	6010C	598871
500-198952-2	MW-19	Total Recoverable	Water	6010C	598871
500-198952-3	Duplicate	Total Recoverable	Water	6010C	598871
500-198952-4	MW-08	Total Recoverable	Water	6010C	598871
500-198952-5	MW-01	Total Recoverable	Water	6010C	598871
500-198952-6	MW-15	Total Recoverable	Water	6010C	598871
500-198952-7	MW-17	Total Recoverable	Water	6010C	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6010C	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6010C	598871

Analysis Batch: 599524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total Recoverable	Water	6020A	598871
500-198952-2	MW-19	Total Recoverable	Water	6020A	598871
500-198952-3	Duplicate	Total Recoverable	Water	6020A	598871
500-198952-4	MW-08	Total Recoverable	Water	6020A	598871
500-198952-5	MW-01	Total Recoverable	Water	6020A	598871
500-198952-6	MW-15	Total Recoverable	Water	6020A	598871
500-198952-7	MW-17	Total Recoverable	Water	6020A	598871
MB 500-598871/1-A	Method Blank	Total Recoverable	Water	6020A	598871
LCS 500-598871/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598871

Prep Batch: 599713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-8	MW-09	Total Recoverable	Water	3005A	
500-198952-9	MW-11	Total Recoverable	Water	3005A	
500-198952-10	MW-12	Total Recoverable	Water	3005A	
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 599734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total Recoverable	Water	6020A	598871
500-198952-2	MW-19	Total Recoverable	Water	6020A	598871

Analysis Batch: 599943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-8	MW-09	Total Recoverable	Water	6010C	599713
500-198952-9	MW-11	Total Recoverable	Water	6010C	599713

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-198952-1

Metals (Continued)

Analysis Batch: 599943 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-10	MW-12	Total Recoverable	Water	6010C	599713
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	6010C	599713
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	6010C	599713

Prep Batch: 599957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	7470A	
500-198952-2	MW-19	Total/NA	Water	7470A	
500-198952-3	Duplicate	Total/NA	Water	7470A	
500-198952-4	MW-08	Total/NA	Water	7470A	
500-198952-5	MW-01	Total/NA	Water	7470A	
500-198952-6	MW-15	Total/NA	Water	7470A	
500-198952-7	MW-17	Total/NA	Water	7470A	
500-198952-8	MW-09	Total/NA	Water	7470A	
500-198952-9	MW-11	Total/NA	Water	7470A	
500-198952-10	MW-12	Total/NA	Water	7470A	
MB 500-599957/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-599957/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 599958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-8	MW-09	Total Recoverable	Water	6020A	599713
500-198952-9	MW-11	Total Recoverable	Water	6020A	599713
500-198952-10	MW-12	Total Recoverable	Water	6020A	599713
MB 500-599713/1-A	Method Blank	Total Recoverable	Water	6020A	599713
LCS 500-599713/2-A	Lab Control Sample	Total Recoverable	Water	6020A	599713

Analysis Batch: 600226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	7470A	599957
500-198952-2	MW-19	Total/NA	Water	7470A	599957
500-198952-3	Duplicate	Total/NA	Water	7470A	599957
500-198952-4	MW-08	Total/NA	Water	7470A	599957
500-198952-5	MW-01	Total/NA	Water	7470A	599957
500-198952-6	MW-15	Total/NA	Water	7470A	599957
500-198952-7	MW-17	Total/NA	Water	7470A	599957
500-198952-8	MW-09	Total/NA	Water	7470A	599957
500-198952-9	MW-11	Total/NA	Water	7470A	599957
500-198952-10	MW-12	Total/NA	Water	7470A	599957
MB 500-599957/12-A	Method Blank	Total/NA	Water	7470A	599957
LCS 500-599957/13-A	Lab Control Sample	Total/NA	Water	7470A	599957

General Chemistry

Analysis Batch: 598492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	SM 2540C	
500-198952-2	MW-19	Total/NA	Water	SM 2540C	
MB 500-598492/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-598492/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-198952-1

General Chemistry

Analysis Batch: 598813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-3	Duplicate	Total/NA	Water	SM 2540C	
500-198952-4	MW-08	Total/NA	Water	SM 2540C	
500-198952-5	MW-01	Total/NA	Water	SM 2540C	
MB 500-598813/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-598813/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 599402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-6	MW-15	Total/NA	Water	SM 2540C	
500-198952-7	MW-17	Total/NA	Water	SM 2540C	
MB 500-599402/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-599402/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 599631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-8	MW-09	Total/NA	Water	SM 2540C	
500-198952-9	MW-11	Total/NA	Water	SM 2540C	
500-198952-10	MW-12	Total/NA	Water	SM 2540C	
MB 500-599631/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-599631/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 601198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	SM 4500 F C	
500-198952-2	MW-19	Total/NA	Water	SM 4500 F C	
500-198952-3	Duplicate	Total/NA	Water	SM 4500 F C	
500-198952-4	MW-08	Total/NA	Water	SM 4500 F C	
500-198952-5	MW-01	Total/NA	Water	SM 4500 F C	
500-198952-6	MW-15	Total/NA	Water	SM 4500 F C	
500-198952-7	MW-17	Total/NA	Water	SM 4500 F C	
500-198952-8	MW-09	Total/NA	Water	SM 4500 F C	
500-198952-9	MW-11	Total/NA	Water	SM 4500 F C	
500-198952-10	MW-12	Total/NA	Water	SM 4500 F C	
MB 500-601198/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-601198/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 601767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-198952-2	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-198952-3	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-198952-4	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-198952-5	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-198952-6	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-198952-7	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-198952-8	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-198952-9	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-198952-10	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 500-601767/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-601767/47	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-601767/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

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

Job ID: 500-198952-1

General Chemistry (Continued)

Analysis Batch: 601767 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-601767/48	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-198952-1 MS	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-198952-1 MSD	MW-18	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 601771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-198952-2	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-198952-3	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-198952-4	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-198952-5	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-198952-6	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-198952-7	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-198952-8	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-198952-9	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-198952-10	MW-12	Total/NA	Water	SM 4500 Cl- E	
MB 500-601771/38	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-601771/39	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-198952-1 MS	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-198952-1 MSD	MW-18	Total/NA	Water	SM 4500 Cl- E	

QC Sample Results

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

Job ID: 500-198952-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-598871/1-A
Matrix: Water
Analysis Batch: 599211

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:28	05/14/21 18:01	1

Lab Sample ID: LCS 500-598871/2-A
Matrix: Water
Analysis Batch: 599211

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.526		mg/L		105	80 - 120

Lab Sample ID: MB 500-599713/1-A
Matrix: Water
Analysis Batch: 599943

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/19/21 08:28	05/19/21 16:54	1

Lab Sample ID: LCS 500-599713/2-A
Matrix: Water
Analysis Batch: 599943

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.548		mg/L		110	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-598871/1-A
Matrix: Water
Analysis Batch: 599524

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 16:42	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Barium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:42	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Calcium	<0.20		0.20		mg/L		05/14/21 08:28	05/17/21 16:42	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:42	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:42	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:42	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 16:42	1

Lab Sample ID: LCS 500-598871/2-A
Matrix: Water
Analysis Batch: 599524

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.506		mg/L		101	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120

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QC Sample Results

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

Job ID: 500-198952-1

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

Lab Sample ID: LCS 500-598871/2-A
Matrix: Water
Analysis Batch: 599524

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	2.00	2.01		mg/L		100	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	9.28		mg/L		93	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.509		mg/L		102	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Molybdenum	1.00	0.976		mg/L		98	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

Lab Sample ID: MB 500-599713/1-A
Matrix: Water
Analysis Batch: 599958

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 599713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/19/21 08:28	05/19/21 17:15	1
Arsenic	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15	1
Barium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 17:15	1
Beryllium	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15	1
Boron	<0.050		0.050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Cadmium	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Calcium	<0.20		0.20		mg/L		05/19/21 08:28	05/19/21 17:15	1
Chromium	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Cobalt	<0.0010		0.0010		mg/L		05/19/21 08:28	05/19/21 17:15	1
Lead	<0.00050		0.00050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Molybdenum	<0.0050		0.0050		mg/L		05/19/21 08:28	05/19/21 17:15	1
Selenium	<0.0025		0.0025		mg/L		05/19/21 08:28	05/19/21 17:15	1
Thallium	<0.0020		0.0020		mg/L		05/19/21 08:28	05/19/21 17:15	1

Lab Sample ID: LCS 500-599713/2-A
Matrix: Water
Analysis Batch: 599958

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 599713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.508		mg/L		102	80 - 120
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Beryllium	0.0500	0.0483		mg/L		97	80 - 120
Boron	1.00	1.03		mg/L		103	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Calcium	10.0	8.88		mg/L		89	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.491		mg/L		98	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Molybdenum	1.00	0.944		mg/L		94	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

QC Sample Results

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

Job ID: 500-198952-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-599957/12-A
Matrix: Water
Analysis Batch: 600226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/20/21 09:35	05/21/21 08:04	1

Lab Sample ID: LCS 500-599957/13-A
Matrix: Water
Analysis Batch: 600226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00223		mg/L		112	80 - 120

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

Lab Sample ID: MB 500-598492/1
Matrix: Water
Analysis Batch: 598492

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			05/13/21 05:14	1

Lab Sample ID: LCS 500-598492/2
Matrix: Water
Analysis Batch: 598492

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	238		mg/L		95	80 - 120

Lab Sample ID: MB 500-598813/1
Matrix: Water
Analysis Batch: 598813

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			05/14/21 03:49	1

Lab Sample ID: LCS 500-598813/2
Matrix: Water
Analysis Batch: 598813

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	270		mg/L		108	80 - 120

Lab Sample ID: MB 500-599402/1
Matrix: Water
Analysis Batch: 599402

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			05/17/21 23:50	1

QC Sample Results

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

Job ID: 500-198952-1

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

Lab Sample ID: LCS 500-599402/2
Matrix: Water
Analysis Batch: 599402

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	244		mg/L		98	80 - 120

Lab Sample ID: MB 500-599631/1
Matrix: Water
Analysis Batch: 599631

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			05/19/21 05:04	1

Lab Sample ID: LCS 500-599631/2
Matrix: Water
Analysis Batch: 599631

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	236		mg/L		94	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-601771/38
Matrix: Water
Analysis Batch: 601771

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/01/21 15:43	1

Lab Sample ID: LCS 500-601771/39
Matrix: Water
Analysis Batch: 601771

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	21.9		mg/L		110	85 - 115

Lab Sample ID: 500-198952-1 MS
Matrix: Water
Analysis Batch: 601771

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
Chloride	140		20.0	157	4	mg/L		74	75 - 125

Lab Sample ID: 500-198952-1 MSD
Matrix: Water
Analysis Batch: 601771

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
Chloride	140		20.0	155	4	mg/L		67	75 - 125	1	20

QC Sample Results

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

Job ID: 500-198952-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-601198/3
Matrix: Water
Analysis Batch: 601198

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			05/27/21 07:27	1

Lab Sample ID: LCS 500-601198/4
Matrix: Water
Analysis Batch: 601198

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	11.2		mg/L		112	80 - 120

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-601767/15
Matrix: Water
Analysis Batch: 601767

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/01/21 14:00	1

Lab Sample ID: MB 500-601767/47
Matrix: Water
Analysis Batch: 601767

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/01/21 14:17	1

Lab Sample ID: LCS 500-601767/16
Matrix: Water
Analysis Batch: 601767

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	23.0		mg/L		115	80 - 120

Lab Sample ID: LCS 500-601767/48
Matrix: Water
Analysis Batch: 601767

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	23.2		mg/L		116	80 - 120

Lab Sample ID: 500-198952-1 MS
Matrix: Water
Analysis Batch: 601767

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
Sulfate	350		20.0	356	4	mg/L		18	75 - 125

QC Sample Results

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

Job ID: 500-198952-1

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

Lab Sample ID: 500-198952-1 MSD
 Matrix: Water
 Analysis Batch: 601767

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
Sulfate	350		20.0	362	4	mg/L		46	75 - 125	2	20

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

Lab Chronicle

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

Job ID: 500-198952-1

Client Sample ID: MW-18
Date Collected: 05/10/21 14:11
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:51	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	599734	05/18/21 13:48	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:08	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598492	05/13/21 06:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:43	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:12	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:09	ACG1	TAL CHI

Client Sample ID: MW-19
Date Collected: 05/10/21 15:16
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:55	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	599734	05/18/21 13:52	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:10	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598492	05/13/21 06:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	601771	06/01/21 15:44	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:15	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:02	ACG1	TAL CHI

Client Sample ID: Duplicate
Date Collected: 05/10/21 00:00
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:59	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:04	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598813	05/14/21 04:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:44	MS	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-198952-1

Client Sample ID: Duplicate
Date Collected: 05/10/21 00:00
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:11	ACG1	TAL CHI

Client Sample ID: MW-08
Date Collected: 05/11/21 15:41
Date Received: 05/12/21 14:55

Lab Sample ID: 500-198952-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 19:02	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:07	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:19	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598813	05/14/21 04:45	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:45	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:21	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:04	ACG1	TAL CHI

Client Sample ID: MW-01
Date Collected: 05/11/21 13:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-198952-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 19:06	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:11	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598813	05/14/21 04:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	601771	06/01/21 15:45	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601767	06/01/21 14:04	ACG1	TAL CHI

Client Sample ID: MW-15
Date Collected: 05/12/21 10:31
Date Received: 05/13/21 13:40

Lab Sample ID: 500-198952-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 19:10	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:14	FXG	TAL CHI

Lab Chronicle

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

Job ID: 500-198952-1

Client Sample ID: MW-15

Lab Sample ID: 500-198952-6

Date Collected: 05/12/21 10:31

Matrix: Water

Date Received: 05/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599402	05/18/21 00:21	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:45	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:14	ACG1	TAL CHI

Client Sample ID: MW-17

Lab Sample ID: 500-198952-7

Date Collected: 05/12/21 09:04

Matrix: Water

Date Received: 05/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 19:13	JJB	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 18:18	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:25	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599402	05/18/21 00:23	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	601771	06/01/21 15:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:07	ACG1	TAL CHI

Client Sample ID: MW-09

Lab Sample ID: 500-198952-8

Date Collected: 05/13/21 13:00

Matrix: Water

Date Received: 05/14/21 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599943	05/19/21 17:20	JJB	TAL CHI
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599958	05/19/21 18:08	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:28	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599631	05/19/21 05:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	601771	06/01/21 15:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:34	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:08	ACG1	TAL CHI

Lab Chronicle

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

Job ID: 500-198952-1

Client Sample ID: MW-11

Lab Sample ID: 500-198952-9

Date Collected: 05/13/21 11:46

Matrix: Water

Date Received: 05/14/21 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599943	05/19/21 17:23	JJB	TAL CHI
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599958	05/19/21 18:11	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599631	05/19/21 05:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	601771	06/01/21 15:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:37	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601767	06/01/21 14:11	ACG1	TAL CHI

Client Sample ID: MW-12

Lab Sample ID: 500-198952-10

Date Collected: 05/13/21 10:50

Matrix: Water

Date Received: 05/14/21 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599943	05/19/21 17:27	JJB	TAL CHI
Total Recoverable	Prep	3005A			599713	05/19/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599958	05/19/21 18:15	FXG	TAL CHI
Total/NA	Prep	7470A			599957	05/20/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	600226	05/21/21 08:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	599631	05/19/21 05:32	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	601771	06/01/21 15:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:50	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	601767	06/01/21 14:12	ACG1	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-198952-1

Laboratory: Eurofins TestAmerica, Chicago

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

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

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

TestAmerica Chicago

2417 Bond Street

Chain of Custody Record


TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact		Project Manager: Rich Gnat		Site Contact: Mitchel Dolan		Date: 5/10/21		COC No											
KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154		Tel/Fax: (262) 781-0475		Lab Contact: Diana Mockler		Carrier: FedEx		1 of 1 COCs											
(262) 781-0475 Phone (262) 781-0478 FAX		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		TAT if different from Below _____		 500-198952 COC		Sampler											
Project Name Powerton CCR		<input type="checkbox"/> 2 weeks		<input type="checkbox"/> 1 week				For Lab Use Only:		Walk-in Client									
Site Powerton Station - Pekin IL		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 day				Lab Sampling		Job / SDG No									
P O # 4501908159		<input type="checkbox"/> 2 weeks		<input type="checkbox"/> 1 week				500-198952		Sample Specific Notes									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 0 904.0 Radium 226/228 + Combined	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS				
1	MW-18	5/10	1411	G	W	70	N	N	X	X	X	X	X	X	X				
2	MW-19	5/10	1516	G	W	7													
3	Duplicate	5/10	-	G	W	7													
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other							4 4 4 1 1 1 1												
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months												
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																			
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd 3.4 Corr'd		Therm ID No													
Relinquished by Mitchel Dolan <i>MD</i>		Company KPRG		Date/Time 5/10/21 1700		Received by FedEx		Company		Date/Time 5/10/21 1700									
Relinquished by		Company		Date/Time		Received by		Company		Date/Time									
Relinquished by		Company		Date/Time		Received in Laboratory by Stephanie Hernandez		Company ETA-CHI		Date/Time 5/11/21 1455									

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781 0478 FAX Project Name Powerton CCR Quarterly Site Powerton Station - Pekin IL P O # 4501908159			Project Manager: Rich Gnat Tel/Fax (262) 781-0475			Site Contact: Mitchel Dolan Lab Contact Diana Mockler			Date: 5/11/21 Carrier: FedEx			COC No _____ of _____ COCs Sampler _____ For Lab Use Only: Walk-in Client _____ Lab Sampling _____ Job / SDG No. 500-198952 Sample Specific Notes																							
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903 0 904 0 Radium 226/228 + Combine 6020A, 7470A - 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SMA4500_Cl_E - Chloride SMA4500_SO4_E - Sulfate 2540C - TDS	Sample Date Sample Time Sample Type (C=Comp G=Grab) Matrix # of Cont.	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1	4 4 4 4 1 1 1 1													
Sample Identification MW-08 MW-01																																			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____						Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown																													
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium						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																													
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No						Custody Seal No _____						Cooler Temp (°C) Obs'd 10 Cor'd _____						Therm ID No _____																	
Relinquished by Mitchel Dolan						Company KPRG						Date/Time 5/11/21/1700						Received by FedEx						Company _____						Date/Time 5/11/21/1700					
Relinquished by _____						Company _____						Date/Time _____						Received by _____						Company _____						Date/Time _____					
Relinquished by _____						Company _____						Date/Time _____						Received by Laboratory _____						Company EPA-CHE						Date/Time 5/12/21 1455					

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL P O # 4501908159		Project Manager Rich Gnat Tel/Fax (262) 781-0475 Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Mitchel Dolan Date: 5/12/2021 Lab Contact Diana Mockler Carrier: FedEx		COC No _____ _____ of _____ COCs Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No. 500-198952										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 0 904 0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes
MW-15		5/12	10:31	G	W	7	N	N	X	X	X	X	X	X	X	X
MW-17		↓	9:04	↓	↓	↓	↓	↓	X	X	X	X	X	X	X	X
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____									4	4	4	1	1	1	1	
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments - Lab Project #50011612. CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No 1588766, 1588769, 1588768			Cooler Temp (°C) Obs'd _____ Cor'd _____		Therm ID No _____		4, 5, 3, 1, 1							
Relinquished by Mitchel Dolan Manual Press		Company KPRG		Date/Time 5/12/16:00		Received by FedEx		Company _____		Date/Time 5/12/21 16:00		_____				
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____		_____				
Relinquished by _____		Company _____		Date/Time _____		Received by Laboratory _____		Company _____		Date/Time 5/13/21 13:40		_____				

Chain of Custody Record

Client Information				Sampler: <i>Michael Press</i>	Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-91215-40686.1																																																																						
Client Contact: Mitchel Dolan				Phone: <i>630-602-7240</i>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin: <i>IL</i>		Page: Page 1 of 1																																																																					
Company: KPRG and Associates, Inc.				PWSID:		Analysis Requested						Job #: <i>500-198952</i>																																																																			
Address: 14665 West Lisbon Road, Suite 1A City: Brookfield State, Zip: WI, 53005				Due Date Requested:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="6" style="writing-mode: vertical-rl; transform: rotate(180deg);">Perform MS/MSD (Yes or No)</td> <td>903.0, 904.0</td> <td>6010C, 6020A, 7470A</td> <td>2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E</td> <td>SM4500_SO4_E - Sulfate</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="6" style="writing-mode: vertical-rl; transform: rotate(180deg);">Total Number of containers</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						Perform MS/MSD (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A	2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E	SM4500_SO4_E - Sulfate							Total Number of containers																																																							Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)	
Perform MS/MSD (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A	2540C, 4500_F_C, SM4500_CI_E, SM4500_SO4_E	SM4500_SO4_E - Sulfate														Total Number of containers																																																													
Phone: 262-781-0475(Tel) 500-198952 COC				TAT Requested (days):		Project #: 50011612		Other:																																																																							
Email: mitcheld@kprginc.com				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		SSOW#:																																																																									
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling				Project #:																																																																											
Site: Illinois				PO #: 4502051132		WO #:																																																																									
Sample Identification				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)																																																																					
										Field Filtered Sample (Yes or No)																																																																					
										Preservation Code:																																																																					
<i>MW-07</i>										D D N N																																																																					
<i>MW-08</i>																																																																															
<i>MW-09</i> ✓				<i>5/13</i>		<i>13:00</i>		<i>G</i>		<i>N</i> X X X X																																																																					
<i>MW-11</i> ✓				<i>↓</i>		<i>11:46</i>		<i>↓</i>		<i>N</i> ↓ ↓ ↓ ↓																																																																					
<i>MW-12</i> ✓				<i>↓</i>		<i>10:50</i>		<i>↓</i>		<i>N</i> ↓ ↓ ↓ ↓																																																																					
<i>MW-15</i> ✓																																																																															
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<i>MW-19</i> ✓																																																																															
Possible Hazard Identification																																																																															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological																																																																															
										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																																																					
										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																					
Deliverable Requested: I, II, III, IV, Other (specify)										Special Instructions/QC Requirements:																																																																					
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:																																																																							
Relinquished by: <i>Michael Press</i>				Date/Time: <i>5/13 14:45</i>		Company: <i>KPRG</i>		Received by: <i>Ann Scott</i>		Date/Time: <i>5/14/21 0925</i> Company: <i>ETA</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.: <i>1588773, 1588772, 1588770, 1588771</i>						Cooler Temperature(s) °C and Other Remarks: <i>11.0, 4.1, 11.0, 1.3</i>																																																																							

8910

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

SHIP DATE: 10MAY21
ACTWGT: 49.95 LB
CAD: 6994779/SSFE2201
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

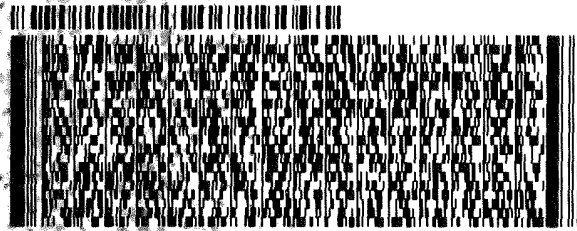
TO EUROFINS TEST AMERICA
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(800) 899-9999
INVT
PO1

REF:

DEPT:



FedEx
Express



AN10152012E1128

2 of 2

TUE - 11 MAY 4:30P
STANDARD OVERNIGHT

MPS# 7869 9691 0148
0263

Metr# 7869 9691 0137

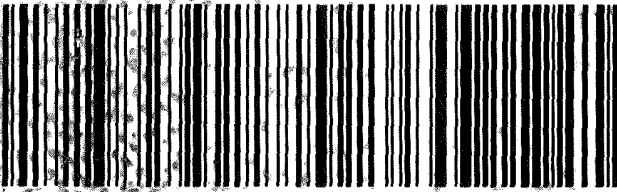
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AHS

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IL-US ORD

UF JOTA



48 qt.

Part # 156295 48347004/21995 03/22



500-198952 Wayb

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

SHIP DATE: 10MAY21
ACTWGT: 49.95 LB
CAD: 6994779/SSFE2201
DIMS: 24x13x14 IN
BILL THIRD PARTY

Pat # 156295-4033/2014/21/995 03/22

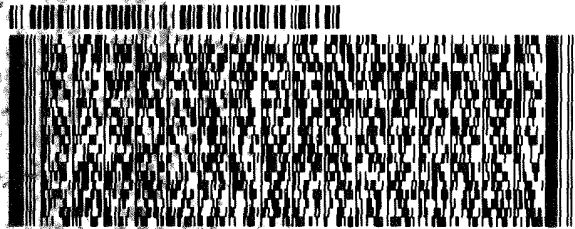
TO **EUROFINS TEST AMERICA**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(999) 999-9999
INVT
PO1

REF:

DEPT:



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2 of 2

TUE - 11 MAY 4:30P
STANDARD OVERNIGHT

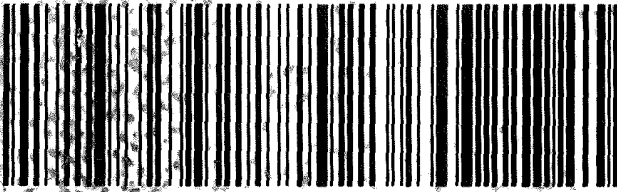
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0263

Mstr# 7869 9691 0137

0201

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48 qt.



500-198952 Wayb

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ORIGIN ID:PIAA (630) 602-7240
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 12MAY21
ACTWGT: 82.35 LB
CAD: 6994780/SSFE2201
DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 156297/338
EXP 07/21

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

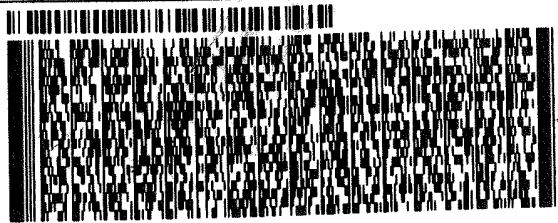
UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

THU:

DEPT:



FedEx
Express



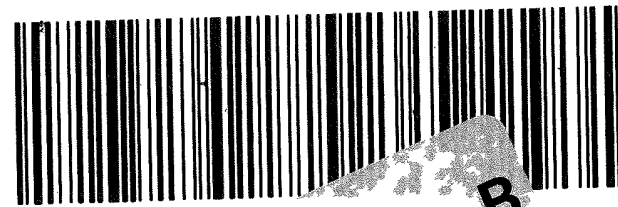
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TRK# 7870 9119 3186
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THU - 13 MAY 4:30P
STANDARD OVERNIGHT

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10-02



500-198952 Wayb

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 13MAY21
ACTWGT: 48.00 LB
CAD: 6994779/SSFE2201
DIMS: 24x18x12 IN

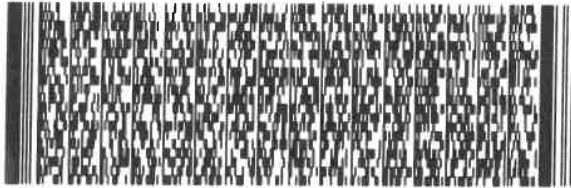
BILL THIRD PARTY

Part # 156295-4083 2/19/2021 03/22

TO **SAMPLE RECEIVING**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: INVT PO: DEPT:

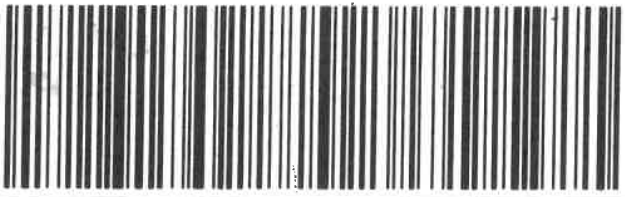


1 of 4
TRK# **7871 3427 2051**
MASTER

FRI - 14 MAY 10:30A
PRIORITY OVERNIGHT

XH JOTA

60484
IL-US **ORD**



2062
05.14

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 13MAY21
ACTWGT: 52.50 LB
CAD: 6994779/SSFE2201
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4083 2/19/2021 03/22

TO **SAMPLE RECEIVING**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: INVT PO: DEPT:



2 of 4
MP# **7871 3427 2062**
Mstr# 7871 3427 2051

FRI - 14 MAY 10:30A
PRIORITY OVERNIGHT

XH JOTA

60484
IL-US **ORD**



RT 519 5 10:30 A
ST 14 2084 05.14

ORIGIN ID:PIAA (000) 00

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

DIMS: 24x18x12 IN
BILL THIRD PARTY

201

TO **SAMPLE RECEIVING
EUROFINS TEST AMERICA
2417 BOND ST**

UNIVERSITY PARK IL 60484

(000) 000-0000

REF:

DEPT:



**FRI - 14 MAY 10:30A
PRIORITY OVERNIGHT**

MPS# 7871 3427 2084
0263

Metr# 7871 3427 2051

0201

XH JOTA

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IL-US ORD



Part # 156295-4354-HAWAII-EXP 03/22

14 2073 05.14

ORIGIN ID:PIAA (000) 000-0090

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 13 MAY
ACTWT: 54.00 LB
CAD: 6994779/65FE2201
DIMS: 24x18x12 IN

BILL THIRD PARTY

TO **SAMPLE RECEIVING
EUROFINS TEST AMERICA
2417 BOND ST**

UNIVERSITY PARK IL 60484

(000) 000-0000

REF:

DEPT:



**FRI - 14 MAY 10:30A
PRIORITY OVERNIGHT**

MPS# 7871 3427 2073
0263

Metr# 7871 3427 2051

0201

XH JOTA

60484

IL-US ORD



Part # 156295-4354-HAWAII-EXP 03/22

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-1

Login Number: 198952

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

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	3.4,1.0,4.1,5.3,1.1,1.1,0.4,1.1,0.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



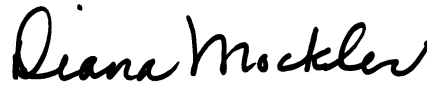
ANALYTICAL REPORT

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

Laboratory Job ID: 500-198952-2
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
6/21/2021 8:14:12 AM

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

LINKS

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

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



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QC Sample Results	19
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Case Narrative

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

Job ID: 500-198952-2

Job ID: 500-198952-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-198952-2

Comments

No additional comments.

Receipt

The samples were received on 5/11/2021 2:55 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 0.3° C, 0.4° C, 1.0° C, 1.1° C, 1.1° C, 1.1° C, 3.4° C, 4.1° C and 5.3° C.

RAD

Methods 903.0, 9315: Radium 226 prep batch 160-510682

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

MW-15 (500-198952-6), MW-17 (500-198952-7), MW-09 (500-198952-8), MW-11 (500-198952-9), MW-12 (500-198952-10), (LCS 160-510682/1-A), (MB 160-510682/25-A) and (500-198952-F-10-D DU)

Method 903.0: Radium-226 prep batch 160-510273:

The following sample has Ba carrier recovery (37.8%) outside the lower QC limit (40%). During the initial prep, some of the sample was lost due to prep error. The matrix spike recovery is within limits and the RER/RPD is within criteria. The data has been reported with this narrative. (160-42036-E-6-C MSD)

Method 903.0: Radium-226 prep batch 160-510273:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-18 (500-198952-1), MW-19 (500-198952-2), Duplicate (500-198952-3), MW-08 (500-198952-4), MW-01 (500-198952-5), (LCS 160-510273/1-A), (MB 160-510273/25-A), (160-42036-E-6-A), (160-42036-E-6-B MS) and (160-42036-E-6-C MSD)

Method 904.0: Radium-228 Batch 510281

The following sample had Barium recovery below the 40% QC limit: (160-42036-E-6-F MSD). The detection limit was achieved, so the laboratory does not believe this excursion adversely affects the data. Therefore, the data have been reported with this narrative.

Method 904.0: Radium-228 Batch 510281

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-18 (500-198952-1), MW-19 (500-198952-2), Duplicate (500-198952-3), MW-08 (500-198952-4), MW-01 (500-198952-5), (LCS 160-510281/1-A), (MB 160-510281/25-A), (160-42036-E-6-D), (160-42036-E-6-E MS) and (160-42036-E-6-F MSD)

Method 904.0:

Methods 904.0, 9320: Radium-228 prep batch 160-510691:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-15 (500-198952-6), MW-17 (500-198952-7), MW-09 (500-198952-8), MW-11 (500-198952-9), MW-12 (500-198952-10), (LCS 160-510691/1-A), (MB 160-510691/25-A) and (500-198952-F-10-C DU)

Case Narrative

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

Job ID: 500-198952-2

Job ID: 500-198952-2 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Method PrecSep_0: Ra-228 Batch 160-510691:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-15 (500-198952-6), MW-17 (500-198952-7), MW-11 (500-198952-9) and MW-12 (500-198952-10). This is an indicator of matrix interference.

Method PrecSep-21: Ra-226 Batch 160-510682:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-15 (500-198952-6), MW-17 (500-198952-7), MW-11 (500-198952-9) and MW-12 (500-198952-10). This is an indicator of matrix interference.

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

Job ID: 500-198952-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-198952-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198952-1	MW-18	Water	05/10/21 14:11	05/11/21 14:55	
500-198952-2	MW-19	Water	05/10/21 15:16	05/11/21 14:55	
500-198952-3	Duplicate	Water	05/10/21 00:00	05/11/21 14:55	
500-198952-4	MW-08	Water	05/11/21 15:41	05/12/21 14:55	
500-198952-5	MW-01	Water	05/11/21 13:06	05/12/21 14:55	
500-198952-6	MW-15	Water	05/12/21 10:31	05/13/21 13:40	
500-198952-7	MW-17	Water	05/12/21 09:04	05/13/21 13:40	
500-198952-8	MW-09	Water	05/13/21 13:00	05/14/21 09:25	
500-198952-9	MW-11	Water	05/13/21 11:46	05/14/21 09:25	
500-198952-10	MW-12	Water	05/13/21 10:50	05/14/21 09:25	

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-18
Date Collected: 05/10/21 14:11
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-1
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.249		0.141	0.143	1.00	0.193	pCi/L	05/18/21 10:13	06/15/21 07:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.1		40 - 110					05/18/21 10:13	06/15/21 07:13	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0382	U	0.304	0.304	1.00	0.544	pCi/L	05/18/21 11:20	06/09/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	66.1		40 - 110					05/18/21 11:20	06/09/21 10:51	1
Y Carrier	84.5		40 - 110					05/18/21 11:20	06/09/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.287	U	0.335	0.336	5.00	0.544	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-19
Date Collected: 05/10/21 15:16
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-2
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0389	U	0.0853	0.0853	1.00	0.182	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					05/18/21 10:13	06/15/21 07:14	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.467	U	0.335	0.338	1.00	0.524	pCi/L	05/18/21 11:20	06/09/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.8		40 - 110					05/18/21 11:20	06/09/21 10:51	1
Y Carrier	84.9		40 - 110					05/18/21 11:20	06/09/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.428	U	0.346	0.349	5.00	0.524	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: Duplicate
Date Collected: 05/10/21 00:00
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-3
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124	U	0.107	0.108	1.00	0.165	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					05/18/21 10:13	06/15/21 07:14	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.160	U	0.369	0.370	1.00	0.631	pCi/L	05/18/21 11:20	06/09/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					05/18/21 11:20	06/09/21 10:51	1
Y Carrier	84.5		40 - 110					05/18/21 11:20	06/09/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.284	U	0.384	0.385	5.00	0.631	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-08

Lab Sample ID: 500-198952-4

Date Collected: 05/11/21 15:41

Matrix: Water

Date Received: 05/12/21 14:55

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.179	U	0.128	0.129	1.00	0.186	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		40 - 110					05/18/21 10:13	06/15/21 07:14	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.188	U	0.407	0.408	1.00	0.695	pCi/L	05/18/21 11:20	06/09/21 10:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	67.0		40 - 110					05/18/21 11:20	06/09/21 10:51	1
Y Carrier	83.0		40 - 110					05/18/21 11:20	06/09/21 10:51	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.367	U	0.427	0.428	5.00	0.695	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-01
Date Collected: 05/11/21 13:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-198952-5
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0274	U	0.0702	0.0702	1.00	0.153	pCi/L	05/18/21 10:13	06/15/21 07:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					05/18/21 10:13	06/15/21 07:14	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.319	U	0.322	0.323	1.00	0.523	pCi/L	05/18/21 11:20	06/09/21 10:52	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.0		40 - 110					05/18/21 11:20	06/09/21 10:52	1
Y Carrier	87.1		40 - 110					05/18/21 11:20	06/09/21 10:52	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.291	U	0.330	0.331	5.00	0.523	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-15

Lab Sample ID: 500-198952-6

Date Collected: 05/12/21 10:31

Matrix: Water

Date Received: 05/13/21 13:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.210	U	0.176	0.177	1.00	0.265	pCi/L	05/20/21 13:58	06/14/21 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.9		40 - 110					05/20/21 13:58	06/14/21 07:51	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0788	U	0.369	0.369	1.00	0.648	pCi/L	05/20/21 15:09	06/11/21 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.9		40 - 110					05/20/21 15:09	06/11/21 13:54	1
Y Carrier	89.0		40 - 110					05/20/21 15:09	06/11/21 13:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.288	U	0.409	0.409	5.00	0.648	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-17

Lab Sample ID: 500-198952-7

Date Collected: 05/12/21 09:04

Matrix: Water

Date Received: 05/13/21 13:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178	U	0.136	0.137	1.00	0.198	pCi/L	05/20/21 13:58	06/14/21 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					05/20/21 13:58	06/14/21 07:51	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.262	U	0.291	0.292	1.00	0.478	pCi/L	05/20/21 15:09	06/11/21 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					05/20/21 15:09	06/11/21 13:54	1
Y Carrier	87.5		40 - 110					05/20/21 15:09	06/11/21 13:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.440	U	0.321	0.323	5.00	0.478	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-09

Lab Sample ID: 500-198952-8

Date Collected: 05/13/21 13:00

Matrix: Water

Date Received: 05/14/21 09:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108	U	0.150	0.150	1.00	0.253	pCi/L	05/20/21 13:58	06/14/21 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.3		40 - 110					05/20/21 13:58	06/14/21 07:51	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.412	U	0.379	0.381	1.00	0.612	pCi/L	05/20/21 15:09	06/11/21 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	64.3		40 - 110					05/20/21 15:09	06/11/21 13:54	1
Y Carrier	89.3		40 - 110					05/20/21 15:09	06/11/21 13:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.520	U	0.408	0.409	5.00	0.612	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-11
Date Collected: 05/13/21 11:46
Date Received: 05/14/21 09:25

Lab Sample ID: 500-198952-9
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.520		0.199	0.204	1.00	0.226	pCi/L	05/20/21 13:58	06/14/21 07:51	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					05/20/21 13:58	06/14/21 07:51	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.07		0.340	0.354	1.00	0.436	pCi/L	05/20/21 15:09	06/11/21 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.3		40 - 110					05/20/21 15:09	06/11/21 13:55	1
Y Carrier	87.5		40 - 110					05/20/21 15:09	06/11/21 13:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.59		0.394	0.409	5.00	0.436	pCi/L		06/18/21 16:23	1

Client Sample Results

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

Job ID: 500-198952-2

Client Sample ID: MW-12

Lab Sample ID: 500-198952-10

Date Collected: 05/13/21 10:50

Matrix: Water

Date Received: 05/14/21 09:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0849	U	0.126	0.126	1.00	0.214	pCi/L	05/20/21 13:58	06/14/21 18:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					05/20/21 13:58	06/14/21 18:27	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.478		0.304	0.307	1.00	0.461	pCi/L	05/20/21 15:09	06/11/21 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		40 - 110					05/20/21 15:09	06/11/21 13:55	1
Y Carrier	86.0		40 - 110					05/20/21 15:09	06/11/21 13:55	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.563		0.329	0.332	5.00	0.461	pCi/L		06/18/21 16:23	1

Definitions/Glossary

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

Job ID: 500-198952-2

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

Job ID: 500-198952-2

Rad

Prep Batch: 510273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	PrecSep-21	
500-198952-2	MW-19	Total/NA	Water	PrecSep-21	
500-198952-3	Duplicate	Total/NA	Water	PrecSep-21	
500-198952-4	MW-08	Total/NA	Water	PrecSep-21	
500-198952-5	MW-01	Total/NA	Water	PrecSep-21	
MB 160-510273/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-510273/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 510281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-1	MW-18	Total/NA	Water	PrecSep_0	
500-198952-2	MW-19	Total/NA	Water	PrecSep_0	
500-198952-3	Duplicate	Total/NA	Water	PrecSep_0	
500-198952-4	MW-08	Total/NA	Water	PrecSep_0	
500-198952-5	MW-01	Total/NA	Water	PrecSep_0	
MB 160-510281/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-510281/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 510682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-6	MW-15	Total/NA	Water	PrecSep-21	
500-198952-7	MW-17	Total/NA	Water	PrecSep-21	
500-198952-8	MW-09	Total/NA	Water	PrecSep-21	
500-198952-9	MW-11	Total/NA	Water	PrecSep-21	
500-198952-10	MW-12	Total/NA	Water	PrecSep-21	
MB 160-510682/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-510682/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-198952-10 DU	MW-12	Total/NA	Water	PrecSep-21	

Prep Batch: 510691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198952-6	MW-15	Total/NA	Water	PrecSep_0	
500-198952-7	MW-17	Total/NA	Water	PrecSep_0	
500-198952-8	MW-09	Total/NA	Water	PrecSep_0	
500-198952-9	MW-11	Total/NA	Water	PrecSep_0	
500-198952-10	MW-12	Total/NA	Water	PrecSep_0	
MB 160-510691/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-510691/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-198952-10 DU	MW-12	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-198952-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-510273/25-A
Matrix: Water
Analysis Batch: 514366

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510273

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1499		0.101	0.102	1.00	0.143	pCi/L	05/18/21 10:13	06/15/21 10:27	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	81.1				05/18/21 10:13	06/15/21 10:27	1			

Lab Sample ID: LCS 160-510273/1-A
Matrix: Water
Analysis Batch: 514296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510273

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.49		1.13	1.00	0.153	pCi/L	92	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
	82.6				05/18/21 10:13	06/15/21 10:27	1		

Lab Sample ID: MB 160-510682/25-A
Matrix: Water
Analysis Batch: 514232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510682

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1240	U	0.107	0.108	1.00	0.161	pCi/L	05/20/21 14:49	06/14/21 18:27	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier	40 - 110							
	83.5				05/20/21 14:49	06/14/21 18:27	1			

Lab Sample ID: LCS 160-510682/1-A
Matrix: Water
Analysis Batch: 514248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510682

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.65		1.36	1.00	0.240	pCi/L	103	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier	40 - 110						
	59.8				05/20/21 14:49	06/14/21 18:27	1		

Lab Sample ID: 500-198952-10 DU
Matrix: Water
Analysis Batch: 514248

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 510682

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0849	U	0.2190	U	0.164	1.00	0.241	pCi/L	0.46	1

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-198952-2

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

Lab Sample ID: 500-198952-10 DU
Matrix: Water
Analysis Batch: 514248

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 510682

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	75.4		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-510281/25-A
Matrix: Water
Analysis Batch: 513485

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510281

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2666	U	0.291	0.292	1.00	0.476	pCi/L	05/18/21 11:20	06/09/21 11:21	1
Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	81.1		40 - 110		05/18/21 11:20	06/09/21 11:21	1			
Y Carrier	89.0		40 - 110		05/18/21 11:20	06/09/21 11:21	1			

Lab Sample ID: LCS 160-510281/1-A
Matrix: Water
Analysis Batch: 513446

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510281

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Radium-228	9.64	9.783		1.20	1.00	0.540	pCi/L	101	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	82.6		40 - 110						
Y Carrier	86.0		40 - 110						

Lab Sample ID: MB 160-510691/25-A
Matrix: Water
Analysis Batch: 513948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 510691

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.05076	U	0.300	0.300	1.00	0.527	pCi/L	05/20/21 15:09	06/11/21 14:05	1
Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	83.5		40 - 110		05/20/21 15:09	06/11/21 14:05	1			
Y Carrier	87.1		40 - 110		05/20/21 15:09	06/11/21 14:05	1			

Lab Sample ID: LCS 160-510691/1-A
Matrix: Water
Analysis Batch: 513943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510691

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec.
				Uncert. (2σ+/-)					Limits
Radium-228	9.64	10.87		1.36	1.00	0.606	pCi/L	113	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-198952-2

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

Lab Sample ID: LCS 160-510691/1-A
Matrix: Water
Analysis Batch: 513943

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 510691

Carrier	LCS	LCS	Limits
	%Yield	Qualifier	
Ba Carrier	59.8		40 - 110
Y Carrier	90.8		40 - 110

Lab Sample ID: 500-198952-10 DU
Matrix: Water
Analysis Batch: 513943

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 510691

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-228	0.478		0.4233	U	0.305	1.00	0.470	pCi/L	0.09	1


Carrier	DU	DU	Limits
	%Yield	Qualifier	
Ba Carrier	75.4		40 - 110
Y Carrier	86.0		40 - 110



University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781 0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL P O # 4501908159		Project Manager Rich Gnat Tel/Fax: (262) 781-0475		Site Contact: Mitchel Dolan Lab Contact: Diana Mockler		Date: 5/10/21 Carrier: FedEx		COC No 1 of 1 COCs											
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)										
<input type="checkbox"/> 903 0 904.0 Radium 226/228 + Combined <input type="checkbox"/> 6020A, 7470A - 14 Metals & Mercury <input type="checkbox"/> 6010C - Lithium <input type="checkbox"/> 4500_F_C - Fluoride <input type="checkbox"/> SM4500_CL_E - Chloride <input type="checkbox"/> SM4500_SO4_E - Sulfate <input type="checkbox"/> 2540C - TDS		500-198952 COC 		For Lab Use Only: Walk-in Client Lab Sampling Job / SDG No 500-198952		Sample Specific Notes													
1	MW-18	5/10	1411	G	W	70		7	N	N	X	X	X	X	X	X			
2	MW-19	5/10	1516	G	W	7		7											
3	Duplicate	5/10	-	G	W	7		7											
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other										4 4 4 1 1 1 1									
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																			
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No					Cooler Temp (°C) Obs'd 3.4 Corr'd					Therm ID No				
Relinquished by Mitchel Dolan <i>M.D.</i>					Company KPRG					Date/Time 5/10/21 1700					Received by FedEx				
Relinquished by					Company					Date/Time					Received by				
Relinquished by					Company					Date/Time					Received in Laboratory by Stephanie Hernandez				
															Company ETA-CHI				
															Date/Time 5/11/21 1455				

TestAmerica Chicago

2417 Bond Street

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211



500-198952 COC

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781 0478 FAX Project Name Powerton CCR Quarterly Site Powerton Station - Pekin IL P O # 4501908159		Project Manager: Rich Gnat Tel/Fax (262) 781-0475		Site Contact: Mitchel Dolan Lab Contact Diana Mockler		Date: 5/11/21 Carrier: FedEx		COC No _____ of _____ COCs Sampler _____ For Lab Use Only: Walk-in Client _____ Lab Sampling _____ Job / SDG No. 500-198952 Sample Specific Notes _____	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Identification Sample Date Sample Time Sample Type (C=Comp G=Grab) Matrix # of Cont.		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903 0 904 0 Radium 226/228 + Combine 6020A, 7470A - 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SMA4500_Cl_E - Chloride SMA4500_SO4_E - Sulfate 2540C - TDS					
4 5 MW-08 MW-01		5/11/21 1541 G W 7 5/11/21 1306 G W 7		N N X X X X X X X X X X X X					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____				4 4 4 1 1 1 1					
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown				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					
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium									
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd 10 Corr'd _____		Therm ID No _____			
Relinquished by Mitchel Dolan [Signature]		Company KPRG		Date/Time 5/11/21/1700		Received by FedEx		Company _____ Date/Time 5/11/21 1700	
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____ Date/Time _____	
Relinquished by _____		Company _____		Date/Time _____		Received by [Signature] Laboratory		Company EPA-CHE Date/Time 5/12/21 1455	

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018



TestAmerica Chicago

2417 Bond Street

University Park IL 60484-3101
 phone 708 534 5200 fax 708 534 5211

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL P O # 4501908159			Project Manager Rich Gnat Tel/Fax (262) 781-0475 Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day			Site Contact: Mitchel Dolan Date: 5/12/2021 Lab Contact Diana Mockler Carrier: FedEx COC No _____ of _____ COCs Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No. <u>500-198952</u> Sample Specific Notes _____											
Sample Identification			Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 0 904 0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	
MW-15 MW-17			5/12 ↓	10:31 9:04	G ↓	W ↓	7 ↓	N ↓	N ↓	X X	X X	X X	X X	X X	X X	X X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____										4	4	4	1	1	1	1	
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments - Lab Project #50011612. CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No <u>1588766, 1588769, 1588768</u>			Cooler Temp (°C) Obs'd _____ Cor'd _____			Therm ID No _____								
Relinquished by <u>Mitchel Dolan</u> <u>Michael Riss</u>			Company KPRG			Date/Time <u>5/12/16:00</u>			Received by <u>FedEx</u>			Company _____			Date/Time <u>5/12/21 16:00</u>		
Relinquished by _____			Company _____			Date/Time _____			Received by _____			Company _____			Date/Time _____		
Relinquished by _____			Company _____			Date/Time _____			Received by <u>STANLEY</u> <u>ETNA</u>			Company _____			Date/Time <u>5/13/21 13:40</u>		

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

Eurofins TestAmerica, Chicago

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

Chain of Custody Record



Client Information		Sampler: <i>Michael Press</i>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-91215-40686.1	
Client Contact: Mitchel Dolan		Phone: <i>630-602-7240</i>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin: <i>IL</i>		Page: Page 1 of 1	
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested				Job #: <i>500-198952</i>	
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:		Total Number of containers		Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:		Special Instructions/Note:	
City: Brookfield		TAT Requested (days):							
State, Zip: WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone: 262-781-0475(Tel) Email: mitcheld@kprginc.com		PO #: 4502051132 WO #:							
Project Name: Powerton CCR Event Desc: Quarterly Powerton CCR Sampling		Project #: 50011612		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E SM4500_SO4_E - Sulfate	
Site: Illinois		SSOW#:							
Sample Identification		Sample Date							
								Preservation Code:	
MW-01								Water	
MW-08								Water	
<i>8910</i> MW-09 ✓		<i>5/13</i>		<i>13:00</i>		<i>G</i>		Water	
MW-11 ✓		↓		<i>11:46</i>		↓		Water	
MW-12 ✓		↓		<i>10:50</i>		↓		Water	
MW-15								Water	
MW-17								Water	
MW-18								Water	
MW-19								Water	
Water								Water	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:		
Relinquished by: <i>Michael Press</i>			Date/Time: <i>5/13 14:45</i>		Company: <i>KPRG</i>		Received by: <i>Shirley Snow</i>		Date/Time: <i>5/14/21 0925</i>
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:
Relinquished by:			Date/Time:		Company:		Received by:		Date/Time:
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <i>1588773, 1588772, 1588770, 1588771</i>			Cooler Temperature(s) °C and Other Remarks: <i>1.1, 0.4, 1.1, 0.3</i>				

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

SHIP DATE: 10MAY21
ACTWGT: 49.95 LB
CAD: 6994779/SSFE2201
DIMS: 24x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

Part # 156295 48347004/2795 03/22

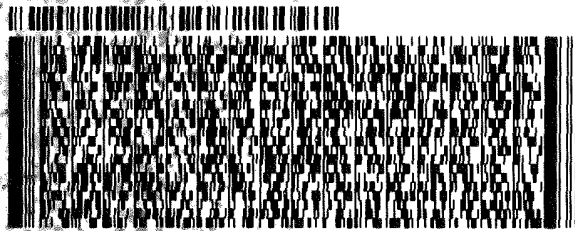
TO **EUROFINS TEST AMERICA**
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2417 BOND ST

UNIVERSITY PARK IL 60484

(800) 899-9999

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DEPT:



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2 of 2

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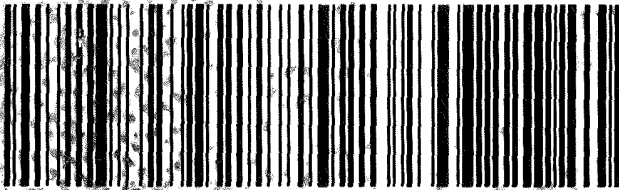
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TUE - 11 MAY 4:30P
STANDARD OVERNIGHT

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

SHIP DATE: 10MAY21
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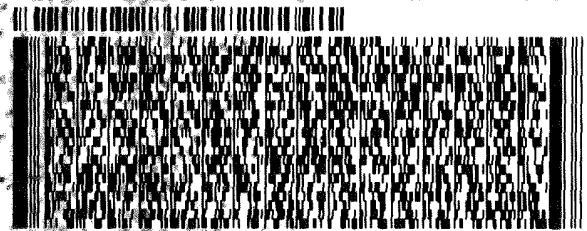
TO EUROFINS TEST AMERICA
EUROFINS TEST AMERICA
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UNIVERSITY PARK IL 60484

(999) 999-9999
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2 of 2

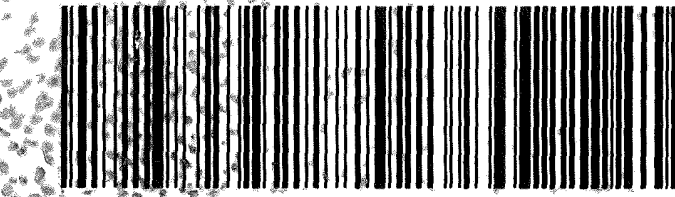
TUE - 11 MAY 4:30P
STANDARD OVERNIGHT

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

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 11MAY21
ACTWGT: 56.85 LB
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DIMS: 23x13x13 IN

BILL THIRD PARTY

Part # 1562974934/211/4/21/21
EXP 07/21

TO TEST AMERICA
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(708) 634-6200
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STANDARD OVERNIGHT

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ORIGIN ID:PIAA (630) 602-7240
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 12MAY21
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BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
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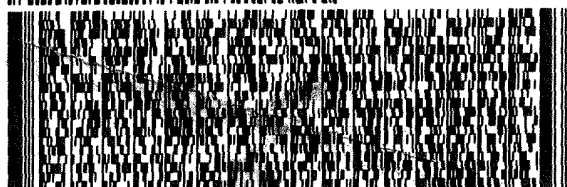
UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

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DEPT:



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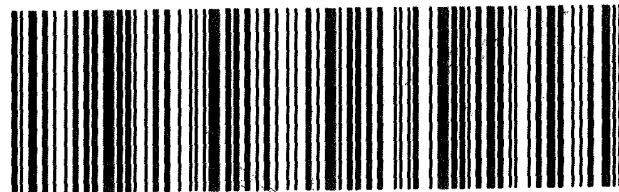
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AHS
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IL-US ORD



ORIGIN ID:PIAA (630) 602-7240
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 12MAY21
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BILL THIRD PARTY

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

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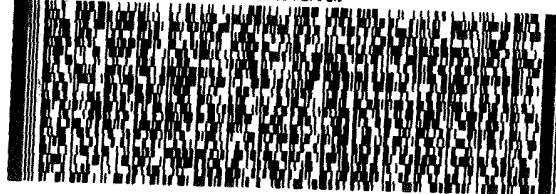
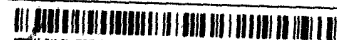
UNIVERSITY PARK IL 60484

(708) 534-5200

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THU - 13 MAY 4:30P
STANDARD OVERNIGHT

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UF JOTA

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Part # 15029/7337 2/15/21 Exp 07/21

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ORIGIN ID:PIAA (630) 602-7240
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 12MAY21
ACTWGT: 82.35 LB
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BILL THIRD PARTY

Part # 156297/338
EXP 07/21

TO TEST AMERICA
TEST AMERICA
2417 BOND ST

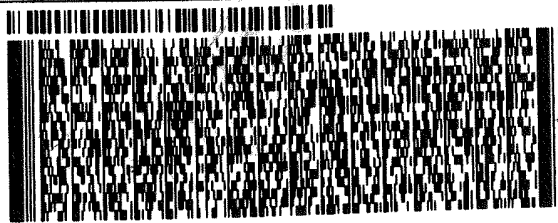
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(708) 534-5200

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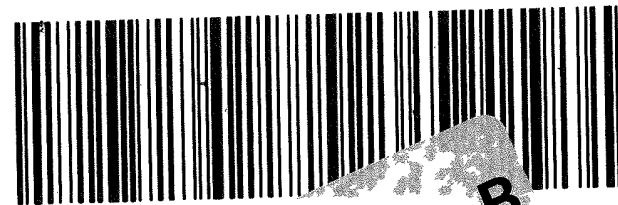
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500-198952 Wayb

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 13MAY21
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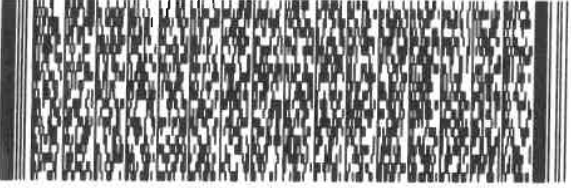
BILL THIRD PARTY

Part # 156295-4083 2/19/2021 03/22

TO **SAMPLE RECEIVING**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:
INVT: PO:

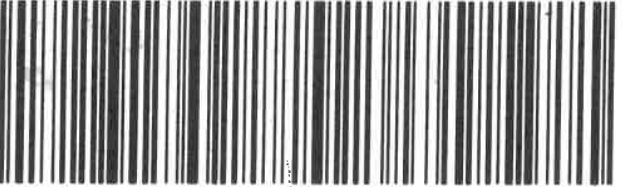


1 of 4
TRK# **7871 3427 2051**
MASTER

FRI - 14 MAY 10:30A
PRIORITY OVERNIGHT

XH JOTA

60484
IL-US **ORD**



2062
05.14

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 13MAY21
ACTWGT: 52.50 LB
CAD: 6994779/SSFE2201
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156295-4083 2/19/2021 03/22

TO **SAMPLE RECEIVING**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(000) 000-0000 REF: DEPT:
INVT: PO:



2 of 4
MP# **7871 3427 2062**
Mstr# 7871 3427 2051

FRI - 14 MAY 10:30A
PRIORITY OVERNIGHT

XH JOTA

60484
IL-US **ORD**



RT 519 5 10:30 A
ST 14 2084 05.14

ORIGIN ID:PIAA (000) 00

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

DIMS: 24x18x12 IN
BILL THIRD PARTY

201

TO **SAMPLE RECEIVING
EUROFINS TEST AMERICA
2417 BOND ST**

UNIVERSITY PARK IL 60484

(000) 000-0000

REF:

DEPT:



**FRI - 14 MAY 10:30A
PRIORITY OVERNIGHT**

4 of 4
MPS# 7871 3427 2084
Metr# 7871 3427 2051

0201

XH JOTA

**60484
IL-US ORD**



Part # 156295-4354-HAWAII-EXP 03/22

14 2073 05.14

ORIGIN ID:PIAA (000) 000-0090

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 13 MAY
ACTWT: 54.00 LB
CAD: 6994779/65FE2201
DIMS: 24x18x12 IN

BILL THIRD PARTY

TO **SAMPLE RECEIVING
EUROFINS TEST AMERICA
2417 BOND ST**

UNIVERSITY PARK IL 60484

(000) 000-0000

REF:

DEPT:



**FRI - 14 MAY 10:30A
PRIORITY OVERNIGHT**

3 of 4
MPS# 7871 3427 2073
Metr# 7871 3427 2051

0201

XH JOTA



**60484
IL-US ORD**



Part # 156295-4354-HAWAII-EXP 03/22

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Shipping/Receiving		Mockler, Diana J		Mockler, Diana J		500-148478-1	
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@Eurofins.com		State of Origin: Illinois		Page: Page 1 of 1	
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:				Job #: 500-198952-2 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: 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 Z - other (specify)			
Due Date Requested: 6/1/2021							
TAT Requested (days):							
PO #:							
WO #:							
Project #: 50011612							
SSOW#:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Ab)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
MW-18 (500-198952-1)		5/10/21	14:11 Central		Water	X	X
MW-19 (500-198952-2)		5/10/21	15:16 Central		Water	X	X
Duplicate (500-198952-3)		5/10/21	Central		Water	X	X
Total Number of containers							
						Special Instructions/Note:	
						3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
						3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs	
						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 TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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/testing matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.							
Possible Hazard Identification							
Unconfirmed							
Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:				Time:			
Relinquished by: <i>Stephanie Hemminger</i>				Date: 5/11/21 1630			
Relinquished by: 				Received by: 			
Relinquished by:				Date/Time: MAY 12 2021 09:35			
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Cooler Temperature(s) °C and Other Remarks:			
Company: <i>ETA-CHI</i>		Company: <i>ETA-CHI</i>		Company: <i>ETA-CHI</i>		Company:	
Date/Time: 5/11/21 1630				Date/Time: MAY 12 2021 09:35			
Date/Time:				Date/Time:			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:							
Method of Shipment: FEDEX							
Primary Deliverable Rank: 2							
Date:							
Date/Time:							
Date/Time:							
Date/Time:							



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-2

Login Number: 198952

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

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	3.4,1.0,4.1,5.3,1.1,1.1,0.4,1.1,0.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-2

Login Number: 198952

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/12/21 12:17 PM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-2

Login Number: 198952

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/13/21 11:16 AM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198952-2

Login Number: 198952

List Number: 4

Creator: Worthington, Sierra M

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/14/21 03:30 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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 500-198952-2

Login Number: 198952

List Number: 5

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/15/21 01:38 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	



Lab Chronicle

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

Job ID: 500-198952-2

Client Sample ID: MW-18
Date Collected: 05/10/21 14:11
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:13	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Client Sample ID: MW-19
Date Collected: 05/10/21 15:16
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Client Sample ID: Duplicate
Date Collected: 05/10/21 00:00
Date Received: 05/11/21 14:55

Lab Sample ID: 500-198952-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Client Sample ID: MW-08
Date Collected: 05/11/21 15:41
Date Received: 05/12/21 14:55

Lab Sample ID: 500-198952-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:51	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-198952-2

Client Sample ID: MW-01

Lab Sample ID: 500-198952-5

Date Collected: 05/11/21 13:06

Matrix: Water

Date Received: 05/12/21 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510273	05/18/21 10:13	MJ	TAL SL
Total/NA	Analysis	903.0		1	514366	06/15/21 07:14	JCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513446	06/09/21 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Client Sample ID: MW-15

Lab Sample ID: 500-198952-6

Date Collected: 05/12/21 10:31

Matrix: Water

Date Received: 05/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514248	06/14/21 07:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:54	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Client Sample ID: MW-17

Lab Sample ID: 500-198952-7

Date Collected: 05/12/21 09:04

Matrix: Water

Date Received: 05/13/21 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514248	06/14/21 07:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:54	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Client Sample ID: MW-09

Lab Sample ID: 500-198952-8

Date Collected: 05/13/21 13:00

Matrix: Water

Date Received: 05/14/21 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514248	06/14/21 07:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:54	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-198952-2

Client Sample ID: MW-11

Date Collected: 05/13/21 11:46

Date Received: 05/14/21 09:25

Lab Sample ID: 500-198952-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514248	06/14/21 07:51	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:55	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Client Sample ID: MW-12

Date Collected: 05/13/21 10:50

Date Received: 05/14/21 09:25

Lab Sample ID: 500-198952-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			510682	05/20/21 13:58	MJ	TAL SL
Total/NA	Analysis	903.0		1	514232	06/14/21 18:27	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510691	05/20/21 15:09	MJ	TAL SL
Total/NA	Analysis	904.0		1	513943	06/11/21 13:55	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514800	06/18/21 16:23	FLC	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-198952-2

Laboratory: Eurofins TestAmerica, St. Louis

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

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

- 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

Job ID: 500-198952-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	
500-198952-1	MW-18	66.1	
500-198952-2	MW-19	77.8	
500-198952-3	Duplicate	78.4	
500-198952-4	MW-08	67.0	
500-198952-5	MW-01	82.0	
500-198952-6	MW-15	58.9	
500-198952-7	MW-17	80.8	
500-198952-8	MW-09	64.3	
500-198952-9	MW-11	79.3	
500-198952-10	MW-12	75.1	
500-198952-10 DU	MW-12	75.4	
LCS 160-510273/1-A	Lab Control Sample	82.6	
LCS 160-510682/1-A	Lab Control Sample	59.8	
MB 160-510273/25-A	Method Blank	81.1	
MB 160-510682/25-A	Method Blank	83.5	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
500-198952-1	MW-18	66.1	84.5
500-198952-2	MW-19	77.8	84.9
500-198952-3	Duplicate	78.4	84.5
500-198952-4	MW-08	67.0	83.0
500-198952-5	MW-01	82.0	87.1
500-198952-6	MW-15	58.9	89.0
500-198952-7	MW-17	80.8	87.5
500-198952-8	MW-09	64.3	89.3
500-198952-9	MW-11	79.3	87.5
500-198952-10	MW-12	75.1	86.0
500-198952-10 DU	MW-12	75.4	86.0
LCS 160-510281/1-A	Lab Control Sample	82.6	86.0
LCS 160-510691/1-A	Lab Control Sample	59.8	90.8
MB 160-510281/25-A	Method Blank	81.1	89.0
MB 160-510691/25-A	Method Blank	83.5	87.1

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

ANALYTICAL REPORT

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

Laboratory Job ID: 500-204293-1
Client Project/Site: Powerton CCR
Revision: 1

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

Attn: Richard Gnat



Authorized for release by:
10/4/2021 12:01:10 PM

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



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Case Narrative

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

Job ID: 500-204293-1

Job ID: 500-204293-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-204293-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 9/17/2021. The report (revision 1) is being revised due to: The units for Antimony and Beryllium need reported in mg/L.

Receipt

The samples were received on 8/25/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 4.9° C, 5.8° C, 5.8° C, 5.9° C, 8.6° C, 10.1° C and 10.8° C.

Receipt Exceptions

A Chain-of-Custody (COC) was not received with these samples: Received two samples (MW-15 and MW-17) with no COC. Logged per container labels.

The following sample(s) was received at the laboratory outside the required temperature criteria: Receiving cooler temp: 10.1°C. Water present in cooler. (Samples #1 and 2)

*Receiving cooler temp 2nd cooler 8/25/21 1510 10.8°C (Sample #3)

**One cooler received on 8/26/21 1650 out of temp. Cooler temp: 8.6°C. Cooler contained sample #7 "MW-12".

Received a set of 7 containers with no sample ID. Sample time of 1102 on all containers. Waiting on client confirmation if MS/MSD to sample #4 "MW-08" (matching sample time) or if sample dup.

*Per client logged sample as #8 "Duplicate".

The units for Antimony and Beryllium need reported in mg/L

The units for Antimony and Beryllium need reported in mg/L

Units for Antimony and Beryllium need reported in mg/L

Metals

Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-617270. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

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

General Chemistry

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

Method Summary

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

Job ID: 500-204293-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-204293-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-204293-1	MW-15	Water	08/23/21 12:41	08/25/21 10:30
500-204293-2	MW-17	Water	08/23/21 15:41	08/25/21 10:30
500-204293-3	MW-01	Water	08/24/21 15:07	08/25/21 15:10
500-204293-4	MW-08	Water	08/25/21 11:02	08/26/21 16:50
500-204293-5	MW-09	Water	08/25/21 15:21	08/26/21 16:50
500-204293-6	MW-11	Water	08/25/21 13:37	08/26/21 16:50
500-204293-7	MW-12	Water	08/25/21 12:22	08/26/21 16:50
500-204293-8	Duplicate	Water	08/25/21 11:02	08/26/21 16:50
500-204293-9	MW-18	Water	08/26/21 09:06	08/27/21 16:12
500-204293-10	MW-19	Water	08/26/21 10:06	08/27/21 16:12

- 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

Job ID: 500-204293-1

Client Sample ID: MW-15

Lab Sample ID: 500-204293-1

Date Collected: 08/23/21 12:41

Matrix: Water

Date Received: 08/25/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.025		0.010		mg/L		09/02/21 08:58	09/03/21 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:06	1
Arsenic	0.0019		0.0010		mg/L		09/02/21 08:58	09/02/21 19:06	1
Barium	0.055		0.0025		mg/L		09/02/21 08:58	09/02/21 19:06	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:06	1
Boron	1.5		0.25		mg/L		09/02/21 08:58	09/03/21 14:38	5
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:06	1
Calcium	200		0.20		mg/L		09/02/21 08:58	09/02/21 19:06	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:06	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:06	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:06	1
Molybdenum	0.024		0.0050		mg/L		09/02/21 08:58	09/02/21 19:06	1
Selenium	0.015		0.0025		mg/L		09/02/21 08:58	09/02/21 19:06	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			08/27/21 05:09	1
Chloride	180		10		mg/L			09/10/21 15:34	5
Fluoride	0.52		0.10		mg/L			09/10/21 13:28	1
Sulfate	470		100		mg/L			09/16/21 15:17	20

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-17

Lab Sample ID: 500-204293-2

Date Collected: 08/23/21 15:41

Matrix: Water

Date Received: 08/25/21 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.010		mg/L		09/02/21 08:58	09/03/21 12:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:09	1
Arsenic	0.0058		0.0010		mg/L		09/02/21 08:58	09/02/21 19:09	1
Barium	0.028		0.0025		mg/L		09/02/21 08:58	09/02/21 19:09	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:09	1
Boron	0.92		0.25		mg/L		09/02/21 08:58	09/03/21 14:41	5
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:09	1
Calcium	140		0.20		mg/L		09/02/21 08:58	09/02/21 19:09	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:09	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:09	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:09	1
Molybdenum	0.043		0.0050		mg/L		09/02/21 08:58	09/02/21 19:09	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:09	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			08/27/21 05:12	1
Chloride	150		10		mg/L			09/10/21 15:50	5
Fluoride	0.70		0.10		mg/L			09/10/21 13:31	1
Sulfate	500		100		mg/L			09/16/21 15:18	20

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:13	1
Arsenic	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:13	1
Barium	0.060		0.0025		mg/L		09/02/21 08:58	09/02/21 19:13	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:13	1
Boron	0.26		0.050		mg/L		09/02/21 08:58	09/03/21 14:45	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:13	1
Calcium	98		0.20		mg/L		09/02/21 08:58	09/02/21 19:13	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:13	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:13	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:13	1
Molybdenum	0.0069		0.0050		mg/L		09/02/21 08:58	09/02/21 19:13	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:13	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	450		10		mg/L			08/27/21 05:14	1
Chloride	40		2.0		mg/L			09/10/21 15:50	1
Fluoride	0.18		0.10		mg/L			09/10/21 13:34	1
Sulfate	56		25		mg/L			09/16/21 15:23	5

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-08

Lab Sample ID: 500-204293-4

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.018		0.010		mg/L		09/02/21 08:58	09/03/21 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:16	1
Arsenic	0.0015		0.0010		mg/L		09/02/21 08:58	09/02/21 19:16	1
Barium	0.059		0.0025		mg/L		09/02/21 08:58	09/02/21 19:16	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:16	1
Boron	0.60		0.050		mg/L		09/02/21 08:58	09/03/21 14:48	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:16	1
Calcium	100		0.20		mg/L		09/02/21 08:58	09/02/21 19:16	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:16	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:16	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:16	1
Molybdenum	0.011		0.0050		mg/L		09/02/21 08:58	09/02/21 19:16	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:16	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10		mg/L			08/27/21 05:17	1
Chloride	110		20		mg/L			09/10/21 15:51	10
Fluoride	0.35		0.10		mg/L			09/10/21 13:37	1
Sulfate	100		50		mg/L			09/16/21 15:19	10

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-09

Lab Sample ID: 500-204293-5

Date Collected: 08/25/21 15:21

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:20	1
Arsenic	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:20	1
Barium	0.035		0.0025		mg/L		09/02/21 08:58	09/02/21 19:20	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:20	1
Boron	2.2		0.50		mg/L		09/02/21 08:58	09/03/21 14:51	10
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:20	1
Calcium	80		0.20		mg/L		09/02/21 08:58	09/02/21 19:20	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:20	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:20	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:20	1
Molybdenum	0.022		0.0050		mg/L		09/02/21 08:58	09/02/21 19:20	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:20	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		10		mg/L			08/27/21 05:20	1
Chloride	32		2.0		mg/L			09/10/21 15:51	1
Fluoride	0.17		0.10		mg/L			09/10/21 13:41	1
Sulfate	130		25		mg/L			09/16/21 15:19	5

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-11

Lab Sample ID: 500-204293-6

Date Collected: 08/25/21 13:37

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:23	1
Arsenic	0.015		0.0010		mg/L		09/02/21 08:58	09/02/21 19:23	1
Barium	0.16		0.0025		mg/L		09/02/21 08:58	09/02/21 19:23	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:23	1
Boron	0.88		0.10		mg/L		09/02/21 08:58	09/03/21 14:55	2
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:23	1
Calcium	100		0.20		mg/L		09/02/21 08:58	09/02/21 19:23	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:23	1
Cobalt	0.0016		0.0010		mg/L		09/02/21 08:58	09/02/21 19:23	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:23	1
Molybdenum	0.030		0.0050		mg/L		09/02/21 08:58	09/02/21 19:23	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:23	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	800		10		mg/L			08/27/21 05:22	1
Chloride	100		10		mg/L			09/10/21 15:51	5
Fluoride	0.65		0.10		mg/L			09/10/21 13:44	1
Sulfate	210		50		mg/L			09/16/21 15:19	10

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-12

Lab Sample ID: 500-204293-7

Date Collected: 08/25/21 12:22

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:27	1
Arsenic	0.0083		0.0010		mg/L		09/02/21 08:58	09/02/21 19:27	1
Barium	0.040		0.0025		mg/L		09/02/21 08:58	09/02/21 19:27	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:27	1
Boron	0.50		0.050		mg/L		09/02/21 08:58	09/03/21 14:58	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:27	1
Calcium	82		0.20		mg/L		09/02/21 08:58	09/02/21 19:27	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:27	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:27	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:27	1
Molybdenum	0.019		0.0050		mg/L		09/02/21 08:58	09/02/21 19:27	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:27	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	740		10		mg/L			08/27/21 05:25	1
Chloride	130		10		mg/L			09/10/21 15:51	5
Fluoride	0.46		0.10		mg/L			09/10/21 13:47	1
Sulfate	220		50		mg/L			09/16/21 15:20	10

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: Duplicate

Lab Sample ID: 500-204293-8

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.018		0.010		mg/L		09/02/21 08:58	09/03/21 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:31	1
Arsenic	0.0014		0.0010		mg/L		09/02/21 08:58	09/02/21 19:31	1
Barium	0.059		0.0025		mg/L		09/02/21 08:58	09/02/21 19:31	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:31	1
Boron	0.60		0.050		mg/L		09/02/21 08:58	09/03/21 15:02	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:31	1
Calcium	100		0.20		mg/L		09/02/21 08:58	09/02/21 19:31	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:31	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:31	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:31	1
Molybdenum	0.011		0.0050		mg/L		09/02/21 08:58	09/02/21 19:31	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:31	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	440		10		mg/L			08/31/21 00:28	1
Chloride	100		10		mg/L			09/10/21 15:52	5
Fluoride	0.35		0.10		mg/L			09/10/21 14:00	1
Sulfate	110		25		mg/L			09/16/21 15:20	5

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-18

Lab Sample ID: 500-204293-9

Date Collected: 08/26/21 09:06

Matrix: Water

Date Received: 08/27/21 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		09/02/21 08:58	09/03/21 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:41	1
Arsenic	0.0023		0.0010		mg/L		09/02/21 08:58	09/02/21 19:41	1
Barium	0.13		0.0025		mg/L		09/02/21 08:58	09/02/21 19:41	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:41	1
Boron	0.52		0.050		mg/L		09/02/21 08:58	09/03/21 15:12	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:41	1
Calcium	140		0.20		mg/L		09/02/21 08:58	09/02/21 19:41	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:41	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:41	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:41	1
Molybdenum	0.030		0.0050		mg/L		09/02/21 08:58	09/02/21 19:41	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:41	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			08/31/21 00:31	1
Chloride	140		10		mg/L			09/10/21 15:52	5
Fluoride	0.56		0.10		mg/L			09/10/21 14:03	1
Sulfate	340		100		mg/L			09/16/21 15:27	20

Client Sample Results

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

Job ID: 500-204293-1

Client Sample ID: MW-19

Lab Sample ID: 500-204293-10

Date Collected: 08/26/21 10:06

Matrix: Water

Date Received: 08/27/21 16:12

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 13:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 19:45	1
Arsenic	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:45	1
Barium	0.066		0.0025		mg/L		09/02/21 08:58	09/02/21 19:45	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:45	1
Boron	2.1		0.50		mg/L		09/02/21 08:58	09/03/21 15:15	10
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:45	1
Calcium	85		0.20		mg/L		09/02/21 08:58	09/02/21 19:45	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 19:45	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 19:45	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 19:45	1
Molybdenum	0.028		0.0050		mg/L		09/02/21 08:58	09/02/21 19:45	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 19:45	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 19:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	320		10		mg/L			08/31/21 00:33	1
Chloride	32		2.0		mg/L			09/10/21 15:52	1
Fluoride	0.11		0.10		mg/L			09/10/21 14:07	1
Sulfate	130		25		mg/L			09/16/21 15:22	5

Definitions/Glossary

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

Job ID: 500-204293-1

Qualifiers

General Chemistry

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

Glossary

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

QC Association Summary

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

Job ID: 500-204293-1

Metals

Prep Batch: 616694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	7470A	
500-204293-2	MW-17	Total/NA	Water	7470A	
500-204293-3	MW-01	Total/NA	Water	7470A	
500-204293-4	MW-08	Total/NA	Water	7470A	
500-204293-5	MW-09	Total/NA	Water	7470A	
500-204293-6	MW-11	Total/NA	Water	7470A	
500-204293-7	MW-12	Total/NA	Water	7470A	
500-204293-8	Duplicate	Total/NA	Water	7470A	
500-204293-9	MW-18	Total/NA	Water	7470A	
500-204293-10	MW-19	Total/NA	Water	7470A	
MB 500-616694/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-616694/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-204293-5 MS	MW-09	Total/NA	Water	7470A	
500-204293-5 MSD	MW-09	Total/NA	Water	7470A	
500-204293-5 DU	MW-09	Total/NA	Water	7470A	

Analysis Batch: 616923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	7470A	616694
500-204293-2	MW-17	Total/NA	Water	7470A	616694
500-204293-3	MW-01	Total/NA	Water	7470A	616694
500-204293-4	MW-08	Total/NA	Water	7470A	616694
500-204293-5	MW-09	Total/NA	Water	7470A	616694
500-204293-6	MW-11	Total/NA	Water	7470A	616694
500-204293-7	MW-12	Total/NA	Water	7470A	616694
500-204293-8	Duplicate	Total/NA	Water	7470A	616694
500-204293-9	MW-18	Total/NA	Water	7470A	616694
500-204293-10	MW-19	Total/NA	Water	7470A	616694
MB 500-616694/12-A	Method Blank	Total/NA	Water	7470A	616694
LCS 500-616694/13-A	Lab Control Sample	Total/NA	Water	7470A	616694
500-204293-5 MS	MW-09	Total/NA	Water	7470A	616694
500-204293-5 MSD	MW-09	Total/NA	Water	7470A	616694
500-204293-5 DU	MW-09	Total/NA	Water	7470A	616694

Prep Batch: 617063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total Recoverable	Water	3005A	
500-204293-2	MW-17	Total Recoverable	Water	3005A	
500-204293-3	MW-01	Total Recoverable	Water	3005A	
500-204293-4	MW-08	Total Recoverable	Water	3005A	
500-204293-5	MW-09	Total Recoverable	Water	3005A	
500-204293-6	MW-11	Total Recoverable	Water	3005A	
500-204293-7	MW-12	Total Recoverable	Water	3005A	
500-204293-8	Duplicate	Total Recoverable	Water	3005A	
500-204293-9	MW-18	Total Recoverable	Water	3005A	
500-204293-10	MW-19	Total Recoverable	Water	3005A	
MB 500-617063/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-617063/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

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QC Association Summary

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

Job ID: 500-204293-1

Metals

Analysis Batch: 617270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total Recoverable	Water	6020A	617063
500-204293-2	MW-17	Total Recoverable	Water	6020A	617063
500-204293-3	MW-01	Total Recoverable	Water	6020A	617063
500-204293-4	MW-08	Total Recoverable	Water	6020A	617063
500-204293-5	MW-09	Total Recoverable	Water	6020A	617063
500-204293-6	MW-11	Total Recoverable	Water	6020A	617063
500-204293-7	MW-12	Total Recoverable	Water	6020A	617063
500-204293-8	Duplicate	Total Recoverable	Water	6020A	617063
500-204293-9	MW-18	Total Recoverable	Water	6020A	617063
500-204293-10	MW-19	Total Recoverable	Water	6020A	617063
MB 500-617063/1-A	Method Blank	Total Recoverable	Water	6020A	617063
LCS 500-617063/2-A	Lab Control Sample	Total Recoverable	Water	6020A	617063

Analysis Batch: 617324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total Recoverable	Water	6010C	617063
500-204293-2	MW-17	Total Recoverable	Water	6010C	617063
500-204293-3	MW-01	Total Recoverable	Water	6010C	617063
500-204293-4	MW-08	Total Recoverable	Water	6010C	617063
500-204293-5	MW-09	Total Recoverable	Water	6010C	617063
500-204293-6	MW-11	Total Recoverable	Water	6010C	617063
500-204293-7	MW-12	Total Recoverable	Water	6010C	617063
500-204293-8	Duplicate	Total Recoverable	Water	6010C	617063
500-204293-9	MW-18	Total Recoverable	Water	6010C	617063
500-204293-10	MW-19	Total Recoverable	Water	6010C	617063
MB 500-617063/1-A	Method Blank	Total Recoverable	Water	6010C	617063
LCS 500-617063/2-A	Lab Control Sample	Total Recoverable	Water	6010C	617063

Analysis Batch: 617331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total Recoverable	Water	6020A	617063
500-204293-2	MW-17	Total Recoverable	Water	6020A	617063
500-204293-3	MW-01	Total Recoverable	Water	6020A	617063
500-204293-4	MW-08	Total Recoverable	Water	6020A	617063
500-204293-5	MW-09	Total Recoverable	Water	6020A	617063
500-204293-6	MW-11	Total Recoverable	Water	6020A	617063
500-204293-7	MW-12	Total Recoverable	Water	6020A	617063
500-204293-8	Duplicate	Total Recoverable	Water	6020A	617063
500-204293-9	MW-18	Total Recoverable	Water	6020A	617063
500-204293-10	MW-19	Total Recoverable	Water	6020A	617063
MB 500-617063/1-A	Method Blank	Total Recoverable	Water	6020A	617063
LCS 500-617063/2-A	Lab Control Sample	Total Recoverable	Water	6020A	617063

General Chemistry

Analysis Batch: 616103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	SM 2540C	
500-204293-2	MW-17	Total/NA	Water	SM 2540C	
500-204293-3	MW-01	Total/NA	Water	SM 2540C	
500-204293-4	MW-08	Total/NA	Water	SM 2540C	

Eurofins TestAmerica, Chicago

QC Association Summary

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

Job ID: 500-204293-1

General Chemistry (Continued)

Analysis Batch: 616103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-5	MW-09	Total/NA	Water	SM 2540C	
500-204293-6	MW-11	Total/NA	Water	SM 2540C	
500-204293-7	MW-12	Total/NA	Water	SM 2540C	
MB 500-616103/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-616103/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 616591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-8	Duplicate	Total/NA	Water	SM 2540C	
500-204293-9	MW-18	Total/NA	Water	SM 2540C	
500-204293-10	MW-19	Total/NA	Water	SM 2540C	
MB 500-616591/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-616591/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 618117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	SM 4500 F C	
500-204293-2	MW-17	Total/NA	Water	SM 4500 F C	
500-204293-3	MW-01	Total/NA	Water	SM 4500 F C	
500-204293-4	MW-08	Total/NA	Water	SM 4500 F C	
500-204293-5	MW-09	Total/NA	Water	SM 4500 F C	
500-204293-6	MW-11	Total/NA	Water	SM 4500 F C	
500-204293-7	MW-12	Total/NA	Water	SM 4500 F C	
500-204293-8	Duplicate	Total/NA	Water	SM 4500 F C	
500-204293-9	MW-18	Total/NA	Water	SM 4500 F C	
500-204293-10	MW-19	Total/NA	Water	SM 4500 F C	
MB 500-618117/29	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-618117/30	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 618135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-204293-2	MW-17	Total/NA	Water	SM 4500 Cl- E	
500-204293-3	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-204293-4	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-204293-5	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-204293-6	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-204293-7	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-204293-8	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-204293-9	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-204293-10	MW-19	Total/NA	Water	SM 4500 Cl- E	
MB 500-618135/39	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-618135/40	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 618960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-204293-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
500-204293-3	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-204293-4	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-204293-5	MW-09	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

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

Job ID: 500-204293-1

General Chemistry (Continued)

Analysis Batch: 618960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-204293-7	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-204293-8	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-204293-9	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-204293-10	MW-19	Total/NA	Water	SM 4500 SO4 E	
MB 500-618960/85	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-618960/90	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-204293-1 MS	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-204293-1 MSD	MW-15	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-204293-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-617063/1-A
Matrix: Water
Analysis Batch: 617324

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/02/21 08:58	09/03/21 12:17	1

Lab Sample ID: LCS 500-617063/2-A
Matrix: Water
Analysis Batch: 617324

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.518		mg/L		104	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-617063/1-A
Matrix: Water
Analysis Batch: 617270

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/02/21 08:58	09/02/21 18:58	1
Arsenic	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 18:58	1
Barium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 18:58	1
Beryllium	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 18:58	1
Cadmium	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 18:58	1
Calcium	<0.20		0.20		mg/L		09/02/21 08:58	09/02/21 18:58	1
Chromium	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 18:58	1
Cobalt	<0.0010		0.0010		mg/L		09/02/21 08:58	09/02/21 18:58	1
Lead	<0.00050		0.00050		mg/L		09/02/21 08:58	09/02/21 18:58	1
Molybdenum	<0.0050		0.0050		mg/L		09/02/21 08:58	09/02/21 18:58	1
Selenium	<0.0025		0.0025		mg/L		09/02/21 08:58	09/02/21 18:58	1
Thallium	<0.0020		0.0020		mg/L		09/02/21 08:58	09/02/21 18:58	1

Lab Sample ID: MB 500-617063/1-A
Matrix: Water
Analysis Batch: 617331

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		09/02/21 08:58	09/03/21 14:31	1

Lab Sample ID: LCS 500-617063/2-A
Matrix: Water
Analysis Batch: 617270

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.507		mg/L		101	80 - 120
Arsenic	0.100	0.0985		mg/L		99	80 - 120
Barium	2.00	1.96		mg/L		98	80 - 120
Beryllium	0.0500	0.0477		mg/L		95	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	9.59		mg/L		96	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.496		mg/L		99	80 - 120
Lead	0.100	0.105		mg/L		105	80 - 120

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QC Sample Results

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

Job ID: 500-204293-1

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

Lab Sample ID: LCS 500-617063/2-A
Matrix: Water
Analysis Batch: 617270

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	1.00	0.953		mg/L		95	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: LCS 500-617063/2-A
Matrix: Water
Analysis Batch: 617331

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617063

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.940		mg/L		94	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-616694/12-A
Matrix: Water
Analysis Batch: 616923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616694

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/31/21 09:35	09/01/21 07:24	1

Lab Sample ID: LCS 500-616694/13-A
Matrix: Water
Analysis Batch: 616923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616694

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00210		mg/L		105	80 - 120

Lab Sample ID: 500-204293-5 MS
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 616694

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000971		mg/L		97	75 - 125

Lab Sample ID: 500-204293-5 MSD
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 616694

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000975		mg/L		98	75 - 125	0	20

Lab Sample ID: 500-204293-5 DU
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 616694

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

QC Sample Results

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

Job ID: 500-204293-1

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

Lab Sample ID: MB 500-616103/1
Matrix: Water
Analysis Batch: 616103

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			08/27/21 04:31	1

Lab Sample ID: LCS 500-616103/2
Matrix: Water
Analysis Batch: 616103

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	242		mg/L		97	80 - 120

Lab Sample ID: MB 500-616591/1
Matrix: Water
Analysis Batch: 616591

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			08/30/21 23:50	1

Lab Sample ID: LCS 500-616591/2
Matrix: Water
Analysis Batch: 616591

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

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-618135/39
Matrix: Water
Analysis Batch: 618135

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			09/10/21 15:29	1

Lab Sample ID: LCS 500-618135/40
Matrix: Water
Analysis Batch: 618135

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	20.4		mg/L		102	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-618117/29
Matrix: Water
Analysis Batch: 618117

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			09/10/21 12:45	1

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QC Sample Results

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

Job ID: 500-204293-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-618117/30
Matrix: Water
Analysis Batch: 618117

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.7		mg/L		107	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-618960/85
Matrix: Water
Analysis Batch: 618960

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/16/21 15:16	1

Lab Sample ID: LCS 500-618960/90
Matrix: Water
Analysis Batch: 618960

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	20.8		mg/L		104	88 - 123

Lab Sample ID: 500-204293-1 MS
Matrix: Water
Analysis Batch: 618960

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	470		20.0	487	4	mg/L		86	75 - 125

Lab Sample ID: 500-204293-1 MSD
Matrix: Water
Analysis Batch: 618960

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	470		20.0	487	4	mg/L		88	75 - 125	0	20

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL		Project Manager: Rich Gnat Tel/Fax: (262) 781-0475		Site Contact: Mitchel Dolan Lab Contact: Diana Mockler		Date: Carrier: Fe		COC No of COCs Sampler: M Dolan For Lab Use Only: Walk-in Client Lab Sampling Job / SDG No 500-204293																					
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0 904.0 Radium 226/228 + Combined	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	500-204293 COC	Sample Specific Notes										
3		mw-01		8/24	15:27	G	W	7	N	N	X	X	X	X	X	X													
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other										4 4 4 1 1 1 1																			
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months																			
Special Instructions/QC Requirements & Comments: Lab Project 50011612 CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium 1679170 1679171 1679168																													
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No					Custody Seal No 1679172, 1679173					Cooler Temp (°C) Obs'd 10.8 Corr'd					Therm ID No														
Relinquished by Mitchel Dolan Michael Less					Company KPRG					Date/Time 8/24/18-00					Received by FedEx					Company					Date/Time				
Relinquished by					Company					Date/Time					Received by					Company					Date/Time				
Relinquished by					Company					Date/Time					Received in Laboratory by Stephanie Fernandez					Company ETA-CHI					Date/Time 8/25/21 1510				

TestAmerica Chicago

2417 Bond Street

Chain of Custody Record




THE LEADER IN ENVIRONMENTAL TESTING

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc.


Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield, WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin, IL P O # 4501908159		Project Manager: Rich Gnat Tel/Fax: (262) 781-0475		Site Contact: Mitchel Dolan Lab Contact: Diana Mockler		Date: 8/25/21 Carrier: FedEx		COC No _____ of _____ COCs										
		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		<table border="1"> <tr> <td>Filtered Sample (Y/N)</td> <td>Perform MS / MSD (Y / N)</td> <td>903.0, 904.0 Radium - 226/228 + Combine</td> <td>6020A, 7470A - 14 Metals & Mercury</td> <td>6010C - Lithium</td> <td>4500_F_C - Fluoride</td> <td>SM4500_Cl_E - Chloride</td> <td>SM4500_SO4_E - Sulfate</td> <td>2540C - TDS</td> </tr> </table>		Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	903.0, 904.0 Radium - 226/228 + Combine	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	 500-204293 COC		Sampler: For Lab Use Only. Walk-in Client Lab Sampling	
Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	903.0, 904.0 Radium - 226/228 + Combine	6020A, 7470A - 14 Metals & Mercury			6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS								
				Job / SDG No 500-204293		Sample Specific Notes												
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	903.0, 904.0 Radium - 226/228 + Combine	6020A, 7470A - 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_Cl_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	Sample Specific Notes		
1 MW-15		8/23/21	1241	G	W	7	N	N	X	X	X	X	X	X	X			
2 MW-17		8/23/21	1541	G	W	7	N	N	X	X	X	X	X	X	X			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4 4 4 1 1 1 1										
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months										
Special Instructions/QC Requirements & Comments: Lab Project #50011612. CCR Appendix III and Appendix IV Parameters. 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd <u>10.1</u> Corr'd _____		Therm ID No _____												
Relinquished by Mitchel Dolan <i>Mitch Dolan</i>		Company: KPRG		Date/Time: 8/25/21 1700		Received by _____		Company: _____		Date/Time: _____								
Relinquished by _____		Company: _____		Date/Time: _____		Received by _____		Company: _____		Date/Time: _____								
Relinquished by _____		Company: _____		Date/Time: _____		Received in Laboratory by <i>Stephanie Hemminger</i>		Company: ETA-CHI		Date/Time: 8/25/21 1030								

Eurofins TestAmerica, Chicago

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

Chain of Custody Record

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 America

Client Information		Sampler <i>Michael Ressa</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COC No 500-94071-41743 1	
Client Contact: Mitchel Dolan		Phone <i>630.602.7240</i>	E-Mail Diana Mockler@Eurofinset.com	State of Origin <i>IL</i>	Page Page 1 of 1	
Company KPRG and Associates Inc		PWSID:	Analysis Requested		Job #: <i>500-204293</i>	
Address 14665 West Lisbon Road Suite 1A		Due Date Requested	 <p>500-204293 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 EDA Z other (specify)	
City Brookfield		TAT Requested (days):				
State, Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Phone 262-781-0475(Tel)		PO # 4502051132				
Email mitcheld@kprginc.com		WO #				
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project # 50011612				
Site Illinois		SSOW#	Total Number of containers:		Other:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT-Tissue A=Air)	Special Instructions/Note
				Preservation Code:		
<i>4</i>	<i>MW-08</i>	<i>8/25</i>	<i>11:02</i>	<i>G</i>	<i>Water</i>	
<i>5</i>	<i>MW-09</i>	<i>↓</i>	<i>15:21</i>	<i>↓</i>	<i>Water</i>	
<i>6</i>	<i>MW-11</i>	<i>↓</i>	<i>13:37</i>	<i>↓</i>	<i>Water</i>	
<i>7</i>	<i>MW-12</i>	<i>↓</i>	<i>12:22</i>	<i>↓</i>	<i>Water</i>	
	<i>MW-05</i>				<i>Water</i>	
	<i>MW-10</i>				<i>Water</i>	
					<i>Water</i>	
Possible Hazard Identification			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)			Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date	Time	Method of Shipment.		
Relinquished by: <i>Michael Ressa</i>	Date/Time: <i>8/25 17:00</i>	Company: <i>KPRG</i>	Received by: <i>Stephanie Hernandez</i>	Date/Time: <i>9/26/21 16:50</i>	Company: <i>EIA-CH</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No <i>1655941, 1655942, 1655944</i> <i>1541431, 1541430</i>	Cooler Temperature(s) °C and Other Remarks <i>4, 9.5, 8, 8, 6.5, 8</i>				




Eurofins TestAmerica, Chicago

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

Chain of Custody Record

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America


Client Information		Sampler: <u>Manuel Ress</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-94071-41743 1			
Client Contact: Mitchel Dolan		Phone: <u>630.602.7240</u>		E Mail: Diana Mockler@Eurofinset.com		State of Origin: <u>IL</u>		Page 1 of 1			
Company: KPRG and Associates Inc		PWSID:		Analysis Requested				Job #: <u>500-204293</u>			
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested:		 <p>500-204293 COC</p>				Preservation Codes			
City: Brookfield		TAT Requested (days):						A HCL M Hexane		B NaOH N None	
State, Zip: WI 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No						C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S	
Phone: 262-781-0475(Tel)		PO #: 4502051132						E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3	
Email: mitcheld@kprginc.com		WO #:						G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612						I Ice U Acetone		J DI Water V MCAA	
Site: Illinois		SSOW#:		K EDTA W pH 4-5		L EDA Z other (specify)		Other:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note		
4 MW-01 <u>MW-08</u>		<u>8/25</u>	<u>11:02</u>	<u>G</u>	<u>Water</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
5 MW-02 <u>MW-09</u>		↓	<u>15:21</u>	↓	<u>Water</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
6 MW-03 <u>MW-11</u>		↓	<u>13:37</u>	↓	<u>Water</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
7 MW-04 <u>MW-12</u>		↓	<u>12:22</u>	↓	<u>Water</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
MW-05					<u>Water</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
MW-10					<u>Water</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
8 <u>Duplicate</u>					<u>Water</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>Added by EIA-CH 8/27/21 SH</u>		
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements						
Empty Kit Relinquished by		Date		Time		Method of Shipment:					
Relinquished by: <u>Manuel Ress</u>		Date/Time: <u>8/25 17:00</u>		Company: <u>WRG</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>8/26/21 16:50</u>		Company: <u>EIA-CH</u>	
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 <u>1655941, 1655942, 1655944</u>			Cooler Temperature(s) °C and Other Remarks <u>4, 5, 8, 8, 6, 5, 8</u>						

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Eurofins TestAmerica, Chicago

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

Chain of Custody Record

Client Information		Sampler: <i>Michael Röss</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-94072-41744 1				
Client Contact: Mitchel Dolan		Phone: <i>630.602.7240</i>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin:		Page 1 of 1				
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested				Job #: <i>500-204293</i>				
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested:		 <p>500-204293 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 EDA Z other (specify) Other:				
City: Brookfield		TAT Requested (days):										
State, Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No										
Phone: 262-781-0475(Tel)		PO #: 4502051132										
Email: mitcheld@kprginc.com		WO #:										
Project Name: Powerton CCR 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#:										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	903.0, 904.0 6010C, 6020A, 7470A 2640C, 4600_F_C, SM4500_CL_E, SM4600_SO4_E SM4500_SO4_E - Sulfate		Special Instructions/Note				
				Preservation Code:		X	D	D	N	N		
MW-01					Water							
MW-08					Water							
MW-09					Water							
MW-11					Water							
MW-12					Water							
MW-15					Water							
MW-17					Water							
MW-18		<i>8/26</i>	<i>9:06</i>	<i>G</i>	Water	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
MW-19		<i>↓</i>	<i>10:06</i>	<i>G</i>	Water	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>		
Trip Blank												
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I, II III IV Other (specify)						Special Instructions/QC Requirements.						
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:					
Relinquished by: <i>Michael Röss</i>			Date/Time: <i>8/26/2021 11:45</i>		Company: <i>KPRG</i>		Received by: <i>Stephanie Hemondley</i>		Date/Time: <i>8/27/21 16:12</i>		Company: <i>ETA-CHI</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: <i>1655943</i>				Cooler Temperature(s) °C and Other Remarks: <i>5.9</i>						

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

WES MONT, IL 60559
UNITED STATES US

SHIP DATE
ACTWGT: 5
CAD: 6994
DIMS: 23

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TO **EUROFINS TEST AMERICA**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

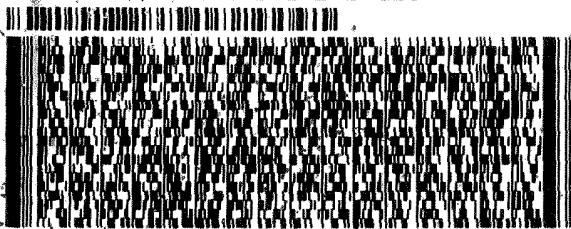
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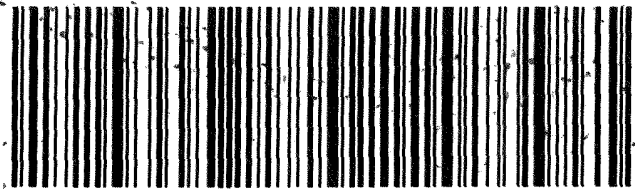
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444 LAZA DR STE 106
WILSON, IL 60559
UNITED STATES US

SHIP DATE: 24AUG21
ACTWGT: 52.80 LB
CAD: 6994780/SSF2202
DIMS: 24x13x13 IN
BILL THIRD PARTY

Part # 15629P-K395-FRNDVNS-EXP C/122

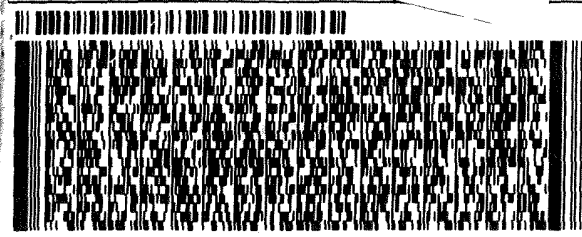


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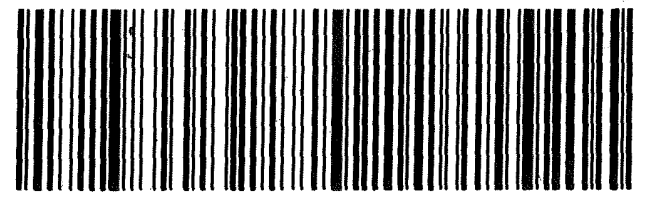
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AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG21
ACTWTG: 44.05 LB
CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN

Part # 156293W489CBNDYVASEXP 08/22

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

SHIP DATE: 25AUG21
ACTWTG: 44.05 LB
CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN

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UNITED STATES US

BILL THIRD PARTY

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

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(708) 534-5211

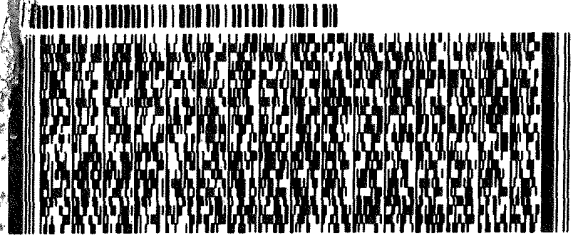
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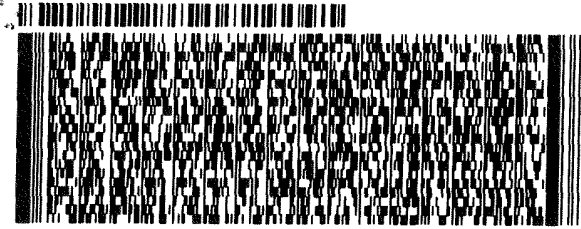
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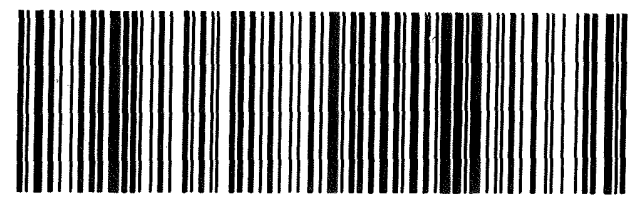
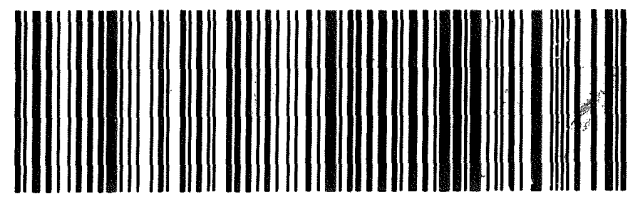
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MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

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ACTWGT: 44.05 LB
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UNITED STATES US

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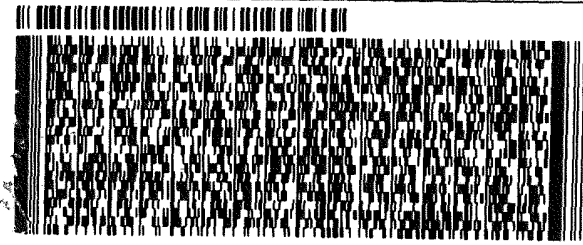
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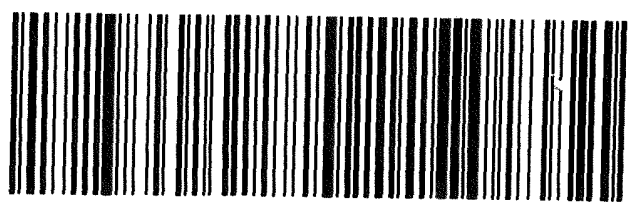
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ORIGIN ID:PIAA (262) 622-1143
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG21
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DIMS: 20x17x14 IN

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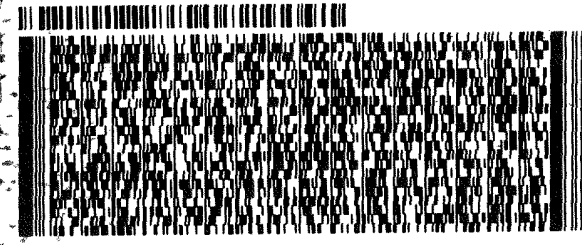
UNIVERSITY PARK IL 60484

(708) 634-6211

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Part # 156297465F-B180V2180XP 04/22

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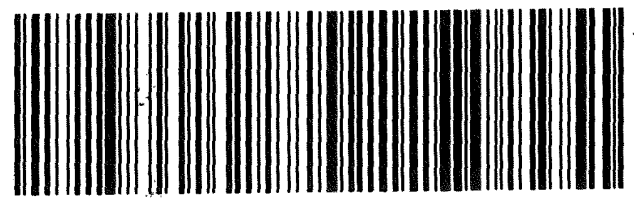
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ORIGIN ID:PIAA (262) 622-1143

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

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UNITED STATES US

SHIP DATE: 26AUG21
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Part # 156297-4934R300WZ-03AP 04/22

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UNIVERSITY PARK IL 60484

(708) 534-5200

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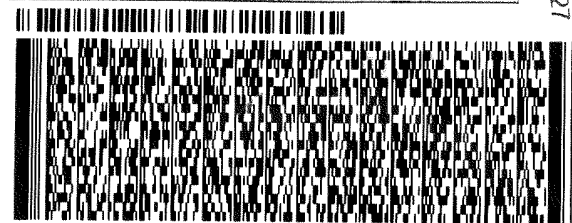
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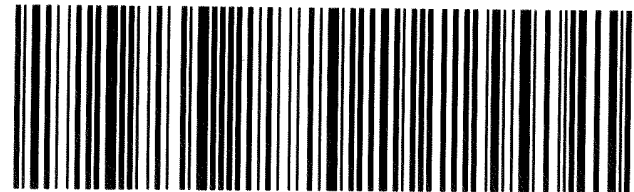
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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204293-1

Login Number: 204293

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	10.1,10.8,4.9,5.8,8.6,5.8,5.9
COC is present.	False	
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.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-204293-1

Client Sample ID: MW-15

Lab Sample ID: 500-204293-1

Date Collected: 08/23/21 12:41

Matrix: Water

Date Received: 08/25/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:25	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:06	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	617331	09/03/21 14:38	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:34	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	618960	09/16/21 15:17	RES	TAL CHI

Client Sample ID: MW-17

Lab Sample ID: 500-204293-2

Date Collected: 08/23/21 15:41

Matrix: Water

Date Received: 08/25/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:29	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	617331	09/03/21 14:41	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:50	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	618960	09/16/21 15:18	RES	TAL CHI

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:33	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:13	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 14:45	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:34	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-204293-1

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	618135	09/10/21 15:50	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:34	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:23	RES	TAL CHI

Client Sample ID: MW-08

Lab Sample ID: 500-204293-4

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:37	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 14:48	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	618135	09/10/21 15:51	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:37	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	618960	09/16/21 15:19	RES	TAL CHI

Client Sample ID: MW-09

Lab Sample ID: 500-204293-5

Date Collected: 08/25/21 15:21

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:41	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:20	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	617331	09/03/21 14:51	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 07:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	618135	09/10/21 15:51	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:41	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:19	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-204293-1

Client Sample ID: MW-11
Date Collected: 08/25/21 13:37
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:53	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		2	617331	09/03/21 14:55	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:51	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:44	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	618960	09/16/21 15:19	RES	TAL CHI

Client Sample ID: MW-12
Date Collected: 08/25/21 12:22
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 12:57	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:27	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 14:58	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616103	08/27/21 05:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:51	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	618960	09/16/21 15:20	RES	TAL CHI

Client Sample ID: Duplicate
Date Collected: 08/25/21 11:02
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 13:02	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:31	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 15:02	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:22	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-204293-1

Client Sample ID: Duplicate

Lab Sample ID: 500-204293-8

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	616591	08/31/21 00:28	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 14:00	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:20	RES	TAL CHI

Client Sample ID: MW-18

Lab Sample ID: 500-204293-9

Date Collected: 08/26/21 09:06

Matrix: Water

Date Received: 08/27/21 16:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 13:06	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617331	09/03/21 15:12	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616591	08/31/21 00:31	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	618135	09/10/21 15:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 14:03	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	618960	09/16/21 15:27	RES	TAL CHI

Client Sample ID: MW-19

Lab Sample ID: 500-204293-10

Date Collected: 08/26/21 10:06

Matrix: Water

Date Received: 08/27/21 16:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617324	09/03/21 13:10	JJB	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617270	09/02/21 19:45	FXG	TAL CHI
Total Recoverable	Prep	3005A			617063	09/02/21 08:58	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	617331	09/03/21 15:15	FXG	TAL CHI
Total/NA	Prep	7470A			616694	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	616591	08/31/21 00:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	618135	09/10/21 15:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 14:07	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:22	RES	TAL CHI

Laboratory References:

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

Eurofins TestAmerica, Chicago

Accreditation/Certification Summary

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

Job ID: 500-204293-1

Laboratory: Eurofins TestAmerica, Chicago

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

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

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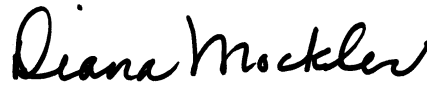
ANALYTICAL REPORT

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

Laboratory Job ID: 500-204293-2
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
10/4/2021 2:15:08 PM

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

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

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



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Case Narrative

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

Job ID: 500-204293-2

Job ID: 500-204293-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-204293-2

Comments

No additional comments.

Receipt

The samples were received on 8/25/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 4.9° C, 5.8° C, 5.8° C, 5.9° C, 8.6° C, 10.1° C and 10.8° C.

Receipt Exceptions

A Chain-of-Custody (COC) was not received with these samples: Received two samples (MW-15 and MW-17) with no COC. Logged per container labels.

The following sample(s) was received at the laboratory outside the required temperature criteria: Receiving cooler temp: 10.1°C. Water present in cooler. (Samples #1 and 2)

*Receiving cooler temp 2nd cooler 8/25/21 1510 10.8°C (Sample #3)

**One cooler received on 8/26/21 1650 out of temp. Cooler temp: 8.6°C. Cooler contained sample #7 "MW-12".

Received a set of 7 containers with no sample ID. Sample time of 1102 on all containers. Waiting on client confirmation if MS/MSD to sample #4 "MW-08" (matching sample time) or if sample dup.

*Per client logged sample as #8 "Duplicate".

RAD

Method 903.0: Radium-226 Batch 525707

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-15 (500-204293-1), MW-17 (500-204293-2), MW-01 (500-204293-3), MW-08 (500-204293-4), MW-09 (500-204293-5), MW-11 (500-204293-6), MW-12 (500-204293-7), Duplicate (500-204293-8), MW-18 (500-204293-9), MW-19 (500-204293-10), (LCS 160-525707/1-A), (MB 160-525707/23-A) and (500-204293-F-1-A DU)

Method 904.0: Radium-228 Batch 525764

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-15 (500-204293-1), MW-17 (500-204293-2), MW-01 (500-204293-3), MW-08 (500-204293-4), MW-09 (500-204293-5), MW-11 (500-204293-6), MW-12 (500-204293-7), Duplicate (500-204293-8), MW-18 (500-204293-9), MW-19 (500-204293-10), (LCS 160-525764/1-A), (MB 160-525764/23-A) and (500-204293-F-1-B DU)

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

Method Summary

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

Job ID: 500-204293-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-204293-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-204293-1	MW-15	Water	08/23/21 12:41	08/25/21 10:30
500-204293-2	MW-17	Water	08/23/21 15:41	08/25/21 10:30
500-204293-3	MW-01	Water	08/24/21 15:07	08/25/21 15:10
500-204293-4	MW-08	Water	08/25/21 11:02	08/26/21 16:50
500-204293-5	MW-09	Water	08/25/21 15:21	08/26/21 16:50
500-204293-6	MW-11	Water	08/25/21 13:37	08/26/21 16:50
500-204293-7	MW-12	Water	08/25/21 12:22	08/26/21 16:50
500-204293-8	Duplicate	Water	08/25/21 11:02	08/26/21 16:50
500-204293-9	MW-18	Water	08/26/21 09:06	08/27/21 16:12
500-204293-10	MW-19	Water	08/26/21 10:06	08/27/21 16:12

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Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-15

Lab Sample ID: 500-204293-1

Date Collected: 08/23/21 12:41

Matrix: Water

Date Received: 08/25/21 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.230	U	0.214	0.215	1.00	0.328	pCi/L	09/07/21 12:33	10/01/21 18:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					09/07/21 12:33	10/01/21 18:42	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.234	U	0.252	0.253	1.00	0.411	pCi/L	09/07/21 14:38	10/01/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		40 - 110					09/07/21 14:38	10/01/21 12:48	1
Y Carrier	81.1		40 - 110					09/07/21 14:38	10/01/21 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.465		0.331	0.332	5.00	0.411	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-17

Lab Sample ID: 500-204293-2

Date Collected: 08/23/21 15:41

Matrix: Water

Date Received: 08/25/21 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.226	U	0.237	0.238	1.00	0.379	pCi/L	09/07/21 12:33	10/01/21 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					09/07/21 12:33	10/01/21 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.327	U	0.303	0.305	1.00	0.490	pCi/L	09/07/21 14:38	10/01/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.3		40 - 110					09/07/21 14:38	10/01/21 12:48	1
Y Carrier	78.1		40 - 110					09/07/21 14:38	10/01/21 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.553		0.385	0.387	5.00	0.490	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.255	U	0.257	0.258	1.00	0.409	pCi/L	09/07/21 12:33	10/01/21 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					09/07/21 12:33	10/01/21 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.826		0.319	0.327	1.00	0.440	pCi/L	09/07/21 14:38	10/01/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					09/07/21 14:38	10/01/21 12:48	1
Y Carrier	83.0		40 - 110					09/07/21 14:38	10/01/21 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.410	0.417	5.00	0.440	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-08
Date Collected: 08/25/21 11:02
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-4
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.121	U	0.213	0.213	1.00	0.473	pCi/L	09/07/21 12:33	10/01/21 18:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					09/07/21 12:33	10/01/21 18:43	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.323	U	0.306	0.308	1.00	0.494	pCi/L	09/07/21 14:38	10/01/21 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.7		40 - 110					09/07/21 14:38	10/01/21 12:48	1
Y Carrier	81.5		40 - 110					09/07/21 14:38	10/01/21 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.202	U	0.373	0.374	5.00	0.494	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-09

Lab Sample ID: 500-204293-5

Date Collected: 08/25/21 15:21

Matrix: Water

Date Received: 08/26/21 16:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.352	U	0.297	0.299	1.00	0.456	pCi/L	09/07/21 12:33	10/01/21 18:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					09/07/21 12:33	10/01/21 18:44	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00274	U	0.327	0.327	1.00	0.579	pCi/L	09/07/21 14:38	10/01/21 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.1		40 - 110					09/07/21 14:38	10/01/21 12:49	1
Y Carrier	82.6		40 - 110					09/07/21 14:38	10/01/21 12:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.349	U	0.442	0.443	5.00	0.579	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-11

Lab Sample ID: 500-204293-6

Date Collected: 08/25/21 13:37

Matrix: Water

Date Received: 08/26/21 16:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.255	U	0.289	0.290	1.00	0.472	pCi/L	09/07/21 12:33	10/01/21 18:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/07/21 12:33	10/01/21 18:44	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.145	U	0.242	0.242	1.00	0.460	pCi/L	09/07/21 14:38	10/01/21 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/07/21 14:38	10/01/21 12:49	1
Y Carrier	82.6		40 - 110					09/07/21 14:38	10/01/21 12:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.109	U	0.377	0.378	5.00	0.472	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-12
Date Collected: 08/25/21 12:22
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-7
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0164	U	0.209	0.209	1.00	0.421	pCi/L	09/07/21 12:33	10/01/21 18:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/07/21 12:33	10/01/21 18:44	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.248	U	0.304	0.304	1.00	0.502	pCi/L	09/07/21 14:38	10/01/21 12:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.1		40 - 110					09/07/21 14:38	10/01/21 12:49	1
Y Carrier	81.9		40 - 110					09/07/21 14:38	10/01/21 12:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.232	U	0.369	0.369	5.00	0.502	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: Duplicate
Date Collected: 08/25/21 11:02
Date Received: 08/26/21 16:50

Lab Sample ID: 500-204293-8
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.102	U	0.202	0.202	1.00	0.441	pCi/L	09/07/21 12:33	10/01/21 18:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/07/21 12:33	10/01/21 18:44	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0408	U	0.279	0.279	1.00	0.488	pCi/L	09/07/21 14:38	10/01/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		40 - 110					09/07/21 14:38	10/01/21 12:53	1
Y Carrier	84.1		40 - 110					09/07/21 14:38	10/01/21 12:53	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0614	U	0.344	0.344	5.00	0.488	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-18
Date Collected: 08/26/21 09:06
Date Received: 08/27/21 16:12

Lab Sample ID: 500-204293-9
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.273	U	0.244	0.245	1.00	0.371	pCi/L	09/07/21 12:33	10/01/21 18:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					09/07/21 12:33	10/01/21 18:45	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.360	U	0.327	0.329	1.00	0.527	pCi/L	09/07/21 14:38	10/01/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.5		40 - 110					09/07/21 14:38	10/01/21 12:53	1
Y Carrier	84.1		40 - 110					09/07/21 14:38	10/01/21 12:53	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.633		0.408	0.410	5.00	0.527	pCi/L		10/04/21 13:27	1

Client Sample Results

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

Job ID: 500-204293-2

Client Sample ID: MW-19

Lab Sample ID: 500-204293-10

Date Collected: 08/26/21 10:06

Matrix: Water

Date Received: 08/27/21 16:12

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.371	U	0.281	0.283	1.00	0.417	pCi/L	09/07/21 12:33	10/01/21 18:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/07/21 12:33	10/01/21 18:45	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0203	U	0.305	0.305	1.00	0.543	pCi/L	09/07/21 14:38	10/01/21 12:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		40 - 110					09/07/21 14:38	10/01/21 12:53	1
Y Carrier	80.7		40 - 110					09/07/21 14:38	10/01/21 12:53	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.351	U	0.415	0.416	5.00	0.543	pCi/L		10/04/21 13:27	1

Definitions/Glossary

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

Job ID: 500-204293-2

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

Job ID: 500-204293-2

Rad

Prep Batch: 525707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	PrecSep-21	
500-204293-2	MW-17	Total/NA	Water	PrecSep-21	
500-204293-3	MW-01	Total/NA	Water	PrecSep-21	
500-204293-4	MW-08	Total/NA	Water	PrecSep-21	
500-204293-5	MW-09	Total/NA	Water	PrecSep-21	
500-204293-6	MW-11	Total/NA	Water	PrecSep-21	
500-204293-7	MW-12	Total/NA	Water	PrecSep-21	
500-204293-8	Duplicate	Total/NA	Water	PrecSep-21	
500-204293-9	MW-18	Total/NA	Water	PrecSep-21	
500-204293-10	MW-19	Total/NA	Water	PrecSep-21	
MB 160-525707/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525707/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-204293-1 DU	MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 525764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204293-1	MW-15	Total/NA	Water	PrecSep_0	
500-204293-2	MW-17	Total/NA	Water	PrecSep_0	
500-204293-3	MW-01	Total/NA	Water	PrecSep_0	
500-204293-4	MW-08	Total/NA	Water	PrecSep_0	
500-204293-5	MW-09	Total/NA	Water	PrecSep_0	
500-204293-6	MW-11	Total/NA	Water	PrecSep_0	
500-204293-7	MW-12	Total/NA	Water	PrecSep_0	
500-204293-8	Duplicate	Total/NA	Water	PrecSep_0	
500-204293-9	MW-18	Total/NA	Water	PrecSep_0	
500-204293-10	MW-19	Total/NA	Water	PrecSep_0	
MB 160-525764/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525764/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-204293-1 DU	MW-15	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-204293-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-525707/23-A
Matrix: Water
Analysis Batch: 529742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525707

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.1135	U	0.209	0.210	1.00	0.477	pCi/L	09/07/21 12:33	10/01/21 18:46	1
Carrier	MB	MB	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110				09/07/21 12:33		10/01/21 18:46	1
	84.9									

Lab Sample ID: LCS 160-525707/1-A
Matrix: Water
Analysis Batch: 529704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525707

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.26		1.42	1.00	0.349	pCi/L	99	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	89.5								

Lab Sample ID: 500-204293-1 DU
Matrix: Water
Analysis Batch: 529703

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 525707

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.230	U	0.1653	U	0.255	1.00	0.435	pCi/L	0.14	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	84.7									

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-525764/23-A
Matrix: Water
Analysis Batch: 529702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525764

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2350	U	0.269	0.270	1.00	0.443	pCi/L	09/07/21 14:38	10/01/21 12:54	1
Carrier	MB	MB	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	40 - 110				09/07/21 14:38		10/01/21 12:54	1
Y Carrier	86.0		40 - 110				09/07/21 14:38		10/01/21 12:54	1

QC Sample Results

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

Job ID: 500-204293-2

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

Lab Sample ID: LCS 160-525764/1-A
Matrix: Water
Analysis Batch: 529703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525764

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.28	11.25		1.31	1.00	0.465	pCi/L	121	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	89.5		40 - 110							
Y Carrier	80.0		40 - 110							

Lab Sample ID: 500-204293-1 DU
Matrix: Water
Analysis Batch: 529703

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 525764

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.234	U	0.6599		0.325	1.00	0.464	pCi/L	0.74	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	84.7		40 - 110							
Y Carrier	80.0		40 - 110							

Regulatory Program: DW NPDES RCRA Other

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station - Pekin IL		Project Manager: Rich Gnat Tel/Fax: (262) 781-0475 Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact: Mitchel Dolan Lab Contact: Diana Mockler Date: _____ Carrier: Fe		COC No _____ of _____ COCs Sampler: M Dolan For Lab Use Only: Walk-in Client _____ Lab Sampling _____ Job / SDG No 500-204293									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0 904.0 Radium 226/228 + Combined 6020A, 7470A - 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CL_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS	500-204293 COC		Sample Specific Notes			
3	mw-01	8/24	15:27	G	W	7	N	N	X	X	X	X			
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other									4	4	4	1	1	1	1
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months							
Special Instructions/QC Requirements & Comments: Lab Project 50011612 CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium 1679170 1679171 1679168															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			Custody Seal No 1679172, 1679173			Cooler Temp (°C) Obs'd 10.8 Corr'd _____ Therm ID No _____									
Relinquished by Mitchel Dolan Michael Less		Company KPRG		Date/Time 8/24/18-00		Received by FedEx		Company _____		Date/Time _____					
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____					
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by Stephanie Permandeja		Company ETA-CHI		Date/Time 8/25/21 1510					

TestAmerica Chicago

2417 Bond Street

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: [] DW [] NPDES [] RCRA [] Other

TestAmerica Laboratories, Inc.

Form containing client contact info (KPRG and Associates Inc), project manager (Rich Gnat), site contact (Mitchel Dolan), date (8/25/21), and a table of sample identification with columns for date, time, type, matrix, and various analytes.

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018


Eurofins TestAmerica, Chicago

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

Chain of Custody Record



Environment Test
 America

Client Information		Sampler <i>Michael Ressa</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No 500-94071-41743 1					
Client Contact: Mitchel Dolan		Phone <i>630.602.7240</i>		E-Mail Diana Mockler@Eurofinset.com		State of Origin <i>IL</i>		Page Page 1 of 1					
Company KPRG and Associates Inc		PWSID:		Analysis Requested						Job #: <i>500-204293</i>			
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) </div> <div style="text-align: center;">  500-204293 COC </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Total Number of containers: </div> </div>						Preservation Codes			
City Brookfield		TAT Requested (days):								A HCL M Hexane		B NaOH N None	
State, Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S	
Phone 262-781-0475(Tel)		PO # 4502051132								E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3	
Email mitcheld@kprginc.com		WO #								G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project # 50011612		I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5					
Site Illinois		SSOW#		L EDA Z other (specify)		Other:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)		Special Instructions/Note			
<i>4 MW-04</i>		<i>8/25</i>		<i>11:02</i>		<i>G</i>		<i>Water</i>					
<i>5 MW-02</i>		<i>↓</i>		<i>15:21</i>		<i>↓</i>		<i>Water</i>					
<i>6 MW-02</i>		<i>↓</i>		<i>13:37</i>		<i>↓</i>		<i>Water</i>					
<i>7 MW-04</i>		<i>↓</i>		<i>12:22</i>		<i>↓</i>		<i>Water</i>					
<i>MW-05</i>								<i>Water</i>					
<i>MW-10</i>								<i>Water</i>					
								<i>Water</i>					
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipment							
Relinquished by: <i>Michael Ressa</i>		Date/Time: <i>8/25 17:00</i>		Company: <i>KPRG</i>		Received by: <i>Stephanie Hernandez</i>		Date/Time: <i>9/26/21 16:50</i>		Company: <i>ETA-CH</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 <i>1655941, 1655942, 1655944</i> <i>1541431, 1541430</i>				Cooler Temperature(s) °C and Other Remarks <i>4, 5, 8, 8, 6, 5, 8</i>							




Eurofins TestAmerica, Chicago

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

Chain of Custody Record

eurofins Environment e-ting
 America

Client Information		Sampler: <i>Manuel Ress</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-94071-41743 1			
Client Contact: Mitchel Dolan		Phone: <i>630.602.7240</i>		E Mail: Diana Mockler@Eurofinset.com		State of Origin: <i>IL</i>		Page 1 of 1			
Company: KPRG and Associates Inc		PWSID:		Analysis Requested				Job #: <i>500-204293</i>			
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested		 <p>500-204293 COC</p>				Preservation Codes			
City: Brookfield		TAT Requested (days)						A HCL M Hexane		B NaOH N None	
State, Zip: WI 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No						C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S	
Phone: 262-781-0475(Tel)		PO #: 4502051132						E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3	
Email: mitcheld@kprginc.com		WO #						G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling		Project #: 50011612		I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5			
Site: Illinois		SSOW#		L EDA Z other (specify)		Other:					
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A=Air)			
								Field Filtered Sample (Yes or No)			
								Perform MS/MSD (Yes or No)			
								903.0 904.0			
								6010C 6020A 7470A			
								2540C, 4500_F_C SM4500_CL_E SM4500_SO4_E			
								SM4500_SO4_E - <i>Sulfate</i>			
								Total Number of containers			
								Special Instructions/Note			
4 MW-01 <i>MW-08</i>		<i>8/25</i>		<i>11:02</i>		<i>G</i>		<i>Water</i>			
5 MW-02 <i>MW-09</i>		↓		<i>15:21</i>		↓		<i>Water</i>			
6 MW-03 <i>MW-11</i>		↓		<i>13:37</i>		↓		<i>Water</i>			
7 MW-04 <i>MW-12</i>		↓		<i>12:22</i>		↓		<i>Water</i>			
MW-05								<i>Water</i>			
MW-10								<i>Water</i>			
8 <i>Duplicate</i>								<i>Water</i>			
								<i>Added by EIA-CH 8/27/21 SH</i>			

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

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

Relinquished by: <i>Manuel Ress</i>	Date/Time: <i>8/25 17:00</i>	Company: <i>WRG</i>	Received by: <i>Stephanie Hernandez</i>	Date/Time: <i>8/26/21 16:50</i>	Company: <i>EIA-CH</i>
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact Yes No Custody Seal No *1655941, 1655942, 1655944, 1541431, 1541430*


Cooler Temperature(s) °C and Other Remarks *49.5.8, 86.5.8*



Eurofins TestAmerica, Chicago

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

Chain of Custody Record

Client Information		Sampler: <i>Michael Riss</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No. 500-94072-41744 1	
Client Contact: Mitchel Dolan		Phone: <i>630.602.7240</i>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin:		Page 1 of 1	
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested				Job #: <i>500-204293</i>	
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested:		 <p>500-204293 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 EDA Z other (specify) Other:	
City: Brookfield		TAT Requested (days):							
State, Zip: WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No							
Phone: 262-781-0475(Tel)		PO #: 4502051132							
Email: mitcheld@kprginc.com		WO #:							
Project Name: Powerton CCR Event Desc. Quarterly Powerton CCR Sampling		Project #: 50011612		Field Filtered Sample (Yes or No)		Total Number of Containers			
Site: Illinois		SSOW#:		Perform MS/MSD (Yes or No)					
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
								Preservation Code: <input checked="" type="checkbox"/> D <input type="checkbox"/> N	
<i>MW-01</i>								Water	
MW-08								Water	
<i>MW-09</i>								Water	
<i>MW-11</i>								Water	
<i>MW-12</i>								Water	
<i>MW-15</i>								Water	
<i>MW-17</i>								Water	
<i>MW-18</i>		<i>8/26</i>		<i>9:06</i>		<i>G</i>		Water	
<i>MW-19</i>		<i>↓</i>		<i>10:06</i>		<i>G</i>		Water	
<i>Trip Blank</i>									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements.				
Empty Kit Relinquished by:		Date		Time		Method of Shipment:			
Relinquished by: <i>Michael Riss</i>		Date/Time: <i>8/26/2021 11:45</i>		Company: <i>KPRG</i>		Received by: <i>Stephanie Hemondley</i>		Date/Time: <i>8/27/21 16:12</i>	
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: <i>1655943</i>		Cooler Temperature(s) °C and Other Remarks: <i>5.9</i>					

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

WES MONT, IL 60559
UNITED STATES US

SHIP DATE
ACTWGT: 5
CAD: 6994
DIMS: 23

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500-204293 Wayb

TO **EUROFINS TEST AMERICA**
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

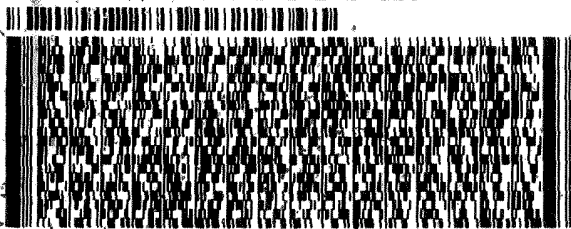
(709) 624-6211

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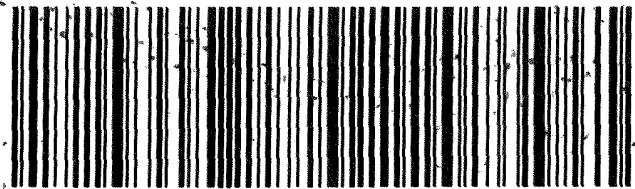
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ORIG ID:PIAA (262) 622-1143
MIKRESS
KIRKLAND ASSOCIATES
444 LAZA DR STE 106
WILSON, IL 60559
UNITED STATES US

SHIP DATE: 24AUG21
ACTWGT: 52.80 LB
CAD: 6994780/SSFE2202
DIMS: 24x13x13 IN
BILL THIRD PARTY

Part # 15629P-K395-FRNDVNS-EXP C/122

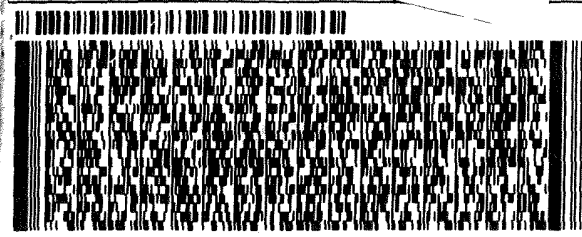


500-204293 Wayb

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UNIVERSIT
(708) 634-6211

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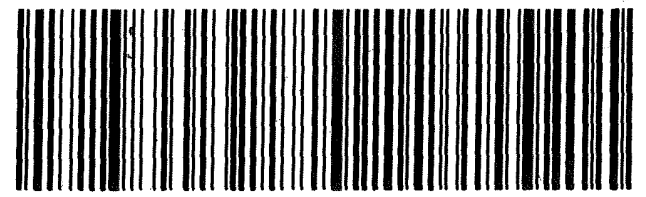


2 of 4
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Mstr# 2829 3420 9402

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N ID:PIAA (262) 622-1143
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AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 25AUG21
ACTWTG: 44.05 LB
CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN
BILL THIRD PARTY

Part # 156293W489C8NDYVSEXP 04/22

ORIGIN ID:PIAA (262) 622-1143
LIKE RESS
FRG AND ASSOCIATES
14 PLAZA DR STE 106

SHIP DATE: 25AUG21
ACTWTG: 44.05 LB
CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

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EUROFINS TEST AMERICA
2417 BOND ST

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EUROFINS TEST AMERICA
2417 BOND ST

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UNIVERSITY PARK IL 60484

(708) 534-5211
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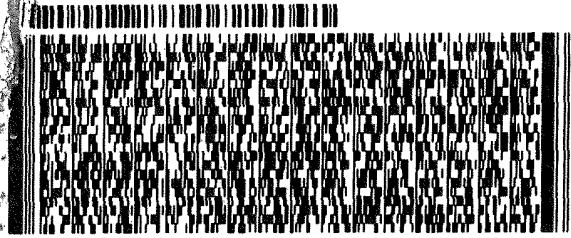
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UNIVERSITY PARK IL 60484

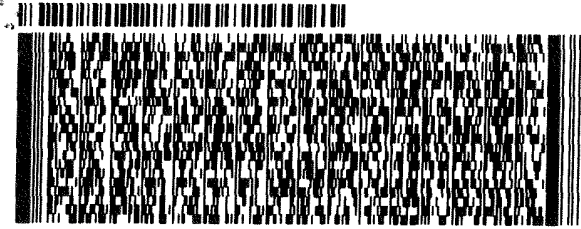
(708) 534-5211

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Mstr# 2829 7788 0640

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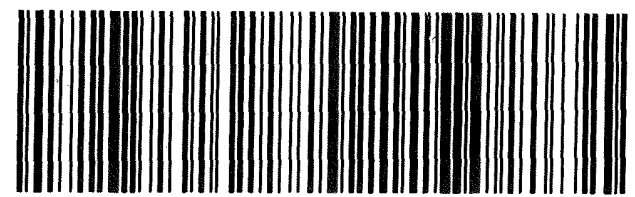
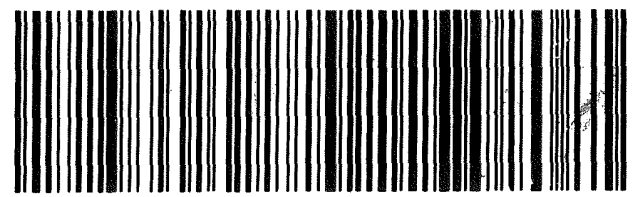
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ORIGIN ID:PIAA (262) 622-1143
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG2
ACTWGT: 44.05 LB
CAD: 6994780/SSFE202
DIMS: 20x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

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EUROFINS TEST AMERICA
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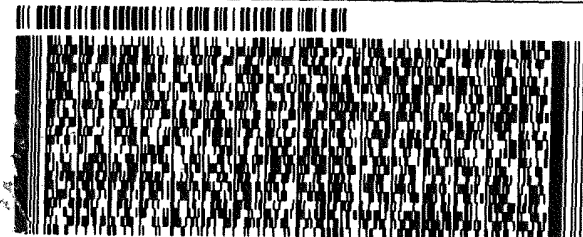
UNIVERSITY PARK IL 60484

(708) 634-6211

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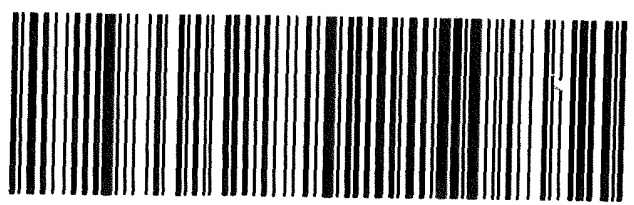
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ORIGIN ID:PIAA (262) 622-1143
MIKE RESS
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 25AUG21
ACTWGT: 44.05 LB
CAD: 6994780/SSFE2202
DIMS: 20x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

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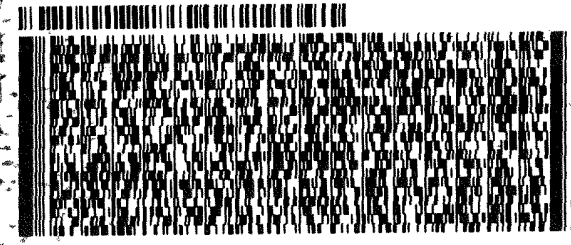
UNIVERSITY PARK IL 60484

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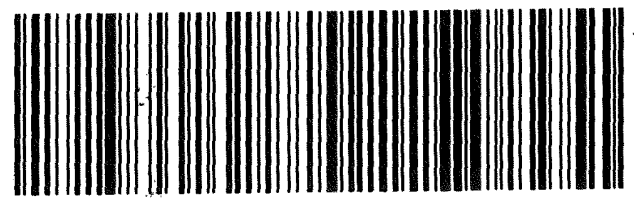
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Part # 156297WMSF-B180VZAN8XP 04/22

ORIGIN ID:PIAA (262) 622-1143

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 26AUG21
ACTWGT: 52.00 LB
CAD: 699.44
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Part # 156297-4934F3E3B9WZ-03AP 04/22

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TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 534-5200

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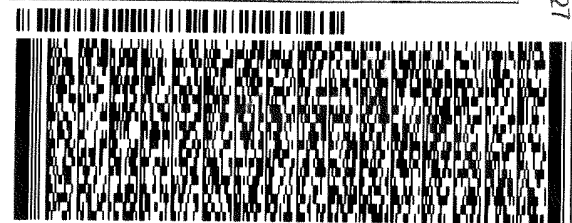
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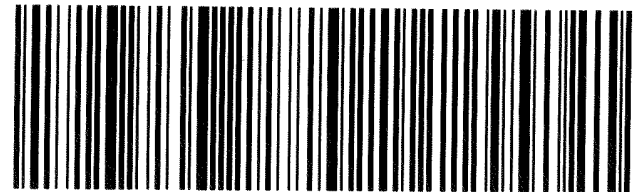
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Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Mockler, Diana J Shipping/Receiving: Diana.Mockler@Eurofins.com Company: TestAmerica Laboratories, Inc.		Lab PM: Mockler, Diana J E-Mail: Diana.Mockler@Eurofins.com	Carrier Tracking No(s): 500-152005.1 State of Origin: Illinois	COC No.: 500-152005.1 Page: Page 1 of 1 Job #: 500-204293-1
Address: 13715 Rider Trail North, Earth City, MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email: [blank]				
Due Date Requested: 9/15/2021 TAT Requested (days): [blank]				
PO #: [blank] WO #: [blank]				
Project #: 50011612 Site: MWG - Powerton				
Sampler: [blank]		Accreditations Required (See note): NELAP - Illinois		

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (Water, Sealed, On-water, BTL, As-Gr)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep 21 Standard Target List	904.0/PreSep 0 Standard Target List	R226Ra228 GPPC	Analysis Requested	Preservation Codes:	Total Number of Containers	Special Instructions/Note:
MW-18 (500-204293-9)	8/26/21	09:06 Central	Water	Water		X	X	X	X			A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	
MW-19 (500-204293-10)	8/26/21	10:06 Central	Water	Water		X	X	X	X			M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4-5 Z - other (specify)	3 Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no	

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

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

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

Special Instructions/QC Requirements:

Company	Date/Time	Method of Shipment:
PTA-CHL	8/30/21 1130	FED EX
[Signature]	8/31/21 1005	FED EX
[Signature]		STL

Emply Kit Relinquished by: [Signature]
 Date: [blank]
 Time: [blank]

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

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

Custody Seals Intact: [blank] Custody Seal No.: [blank]
 Yes Δ No

Cooler Temperature(s) °C and Other Remarks: [blank]



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204293-2

Login Number: 204293

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	10.1,10.8,4.9,5.8,8.6,5.8,5.9
COC is present.	False	
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.	False	
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: 500-204293-2

Login Number: 204293

List Number: 2

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/27/21 08:54 PM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204293-2

Login Number: 204293

List Number: 3

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/28/21 01:44 PM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204293-2

Login Number: 204293

List Number: 4

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 08/31/21 12:02 PM

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

Lab Chronicle

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

Job ID: 500-204293-2

Client Sample ID: MW-15

Lab Sample ID: 500-204293-1

Date Collected: 08/23/21 12:41

Matrix: Water

Date Received: 08/25/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529704	10/01/21 18:42	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:48	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-17

Lab Sample ID: 500-204293-2

Date Collected: 08/23/21 15:41

Matrix: Water

Date Received: 08/25/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:43	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:48	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-01

Lab Sample ID: 500-204293-3

Date Collected: 08/24/21 15:07

Matrix: Water

Date Received: 08/25/21 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:43	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:48	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-08

Lab Sample ID: 500-204293-4

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:43	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:48	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-204293-2

Client Sample ID: MW-09

Lab Sample ID: 500-204293-5

Date Collected: 08/25/21 15:21

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:44	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:49	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-11

Lab Sample ID: 500-204293-6

Date Collected: 08/25/21 13:37

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:44	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:49	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-12

Lab Sample ID: 500-204293-7

Date Collected: 08/25/21 12:22

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:44	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529703	10/01/21 12:49	JCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: Duplicate

Lab Sample ID: 500-204293-8

Date Collected: 08/25/21 11:02

Matrix: Water

Date Received: 08/26/21 16:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:44	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529702	10/01/21 12:53	EMH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-204293-2

Client Sample ID: MW-18

Date Collected: 08/26/21 09:06

Date Received: 08/27/21 16:12

Lab Sample ID: 500-204293-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:45	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529702	10/01/21 12:53	EMH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Client Sample ID: MW-19

Date Collected: 08/26/21 10:06

Date Received: 08/27/21 16:12

Lab Sample ID: 500-204293-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525707	09/07/21 12:33	MJ	TAL SL
Total/NA	Analysis	903.0		1	529703	10/01/21 18:45	JCB	TAL SL
Total/NA	Prep	PrecSep_0			525764	09/07/21 14:38	MJ	TAL SL
Total/NA	Analysis	904.0		1	529702	10/01/21 12:53	EMH	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	530059	10/04/21 13:27	FLC	TAL SL

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-204293-2

Laboratory: Eurofins TestAmerica, St. Louis

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

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

- 1
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Tracer/Carrier Summary

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

Job ID: 500-204293-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-204293-1	MW-15	88.5	
500-204293-1 DU	MW-15	84.7	
500-204293-2	MW-17	91.3	
500-204293-3	MW-01	87.7	
500-204293-4	MW-08	77.7	
500-204293-5	MW-09	82.1	
500-204293-6	MW-11	87.2	
500-204293-7	MW-12	81.1	
500-204293-8	Duplicate	89.0	
500-204293-9	MW-18	78.5	
500-204293-10	MW-19	87.2	
LCS 160-525707/1-A	Lab Control Sample	89.5	
MB 160-525707/23-A	Method Blank	84.9	
Tracer/Carrier Legend			
Ba = Ba Carrier			

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-204293-1	MW-15	88.5	81.1
500-204293-1 DU	MW-15	84.7	80.0
500-204293-2	MW-17	91.3	78.1
500-204293-3	MW-01	87.7	83.0
500-204293-4	MW-08	77.7	81.5
500-204293-5	MW-09	82.1	82.6
500-204293-6	MW-11	87.2	82.6
500-204293-7	MW-12	81.1	81.9
500-204293-8	Duplicate	89.0	84.1
500-204293-9	MW-18	78.5	84.1
500-204293-10	MW-19	87.2	80.7
LCS 160-525764/1-A	Lab Control Sample	89.5	80.0
MB 160-525764/23-A	Method Blank	84.9	86.0
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

ANALYTICAL REPORT

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

Laboratory Job ID: 500-209044-1
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
12/17/2021 2:57:18 PM

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

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

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



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Case Narrative

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

Job ID: 500-209044-1

Job ID: 500-209044-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-209044-1

Comments

No additional comments.

Receipt

The samples were received on 11/30/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.8° C, 0.8° C, 1.0° C, 1.3° C, 1.4° C and 2.1° C.

Receipt Exceptions

Received 1 of the 1L Rad bottles empty for sample 1.

Metals

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

General Chemistry

Methods 9038, SM 4500 SO4 E: The low level CCVs associated with the following samples recovered slightly below (87-89%) the lower control limit of 90%: MW-01 (500-209044-3), MW-08 (500-209044-4), MW-18 (500-209044-5), MW-11 (500-209044-6), MW-19 (500-209044-7), Duplicate (500-209044-8), MW-12 (500-209044-9), MW-09 (500-209044-10), (500-209044-D-9 MS) and (500-209044-D-9 MSD). These sample instrument responses were at a level greater than or equal to the LCS spiking level of 20 mg/L. The LCS and high level CCVH all met criteria; therefore, data has been flagged and reported.

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

Job ID: 500-209044-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-209044-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209044-1	MW-15	Water	11/29/21 15:44	11/30/21 10:40
500-209044-2	MW-17	Water	11/29/21 14:47	11/30/21 10:40
500-209044-3	MW-01	Water	11/30/21 11:15	12/01/21 10:30
500-209044-4	MW-08	Water	12/01/21 09:25	12/02/21 10:25
500-209044-5	MW-18	Water	12/01/21 10:21	12/02/21 10:25
500-209044-6	MW-11	Water	12/01/21 11:55	12/02/21 10:25
500-209044-7	MW-19	Water	12/01/21 12:58	12/02/21 10:25
500-209044-8	Duplicate	Water	12/01/21 00:00	12/02/21 10:25
500-209044-9	MW-12	Water	12/01/21 14:18	12/02/21 10:25
500-209044-10	MW-09	Water	12/01/21 15:15	12/02/21 10:25

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Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-15

Lab Sample ID: 500-209044-1

Date Collected: 11/29/21 15:44

Matrix: Water

Date Received: 11/30/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:09	1
Arsenic	0.0022		0.0010		mg/L		12/15/21 10:08	12/16/21 14:09	1
Barium	0.075		0.0025		mg/L		12/15/21 10:08	12/16/21 14:09	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:09	1
Boron	1.9		0.25		mg/L		12/15/21 10:08	12/17/21 11:55	5
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:09	1
Calcium	220		0.20		mg/L		12/15/21 10:08	12/16/21 14:09	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:09	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:09	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:09	1
Lithium	0.024		0.0020		mg/L		12/15/21 10:08	12/16/21 14:09	1
Molybdenum	0.016		0.0050		mg/L		12/15/21 10:08	12/16/21 14:09	1
Selenium	0.059		0.0025		mg/L		12/15/21 10:08	12/16/21 14:09	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1700		10		mg/L			12/01/21 05:20	1
Chloride	250		20		mg/L			12/01/21 13:41	10
Fluoride	0.48		0.10		mg/L			12/12/21 12:37	1
Sulfate	480		100		mg/L			12/01/21 14:22	20

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-17

Lab Sample ID: 500-209044-2

Date Collected: 11/29/21 14:47

Matrix: Water

Date Received: 11/30/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:12	1
Arsenic	0.0039		0.0010		mg/L		12/15/21 10:08	12/16/21 14:12	1
Barium	0.025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:12	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:12	1
Boron	1.0		0.25		mg/L		12/15/21 10:08	12/17/21 11:59	5
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:12	1
Calcium	140		0.20		mg/L		12/15/21 10:08	12/16/21 14:12	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:12	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:12	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:12	1
Lithium	0.017		0.0020		mg/L		12/15/21 10:08	12/16/21 14:12	1
Molybdenum	0.040		0.0050		mg/L		12/15/21 10:08	12/16/21 14:12	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:12	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			12/01/21 05:22	1
Chloride	150		10		mg/L			12/01/21 12:52	5
Fluoride	0.76		0.10		mg/L			12/12/21 12:52	1
Sulfate	430		100		mg/L			12/01/21 14:23	20

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-01
Date Collected: 11/30/21 11:15
Date Received: 12/01/21 10:30

Lab Sample ID: 500-209044-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:16	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:16	1
Barium	0.060		0.0025		mg/L		12/15/21 10:08	12/16/21 14:16	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:16	1
Boron	0.33		0.050		mg/L		12/15/21 10:08	12/17/21 12:13	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:16	1
Calcium	97		0.20		mg/L		12/15/21 10:08	12/16/21 14:16	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:16	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:16	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:16	1
Lithium	0.0050		0.0020		mg/L		12/15/21 10:08	12/16/21 14:16	1
Molybdenum	0.0072		0.0050		mg/L		12/15/21 10:08	12/16/21 14:16	1
Selenium	0.0026		0.0025		mg/L		12/15/21 10:08	12/16/21 14:16	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	410		10		mg/L			12/02/21 05:38	1
Chloride	42		6.0		mg/L			12/07/21 15:26	3
Fluoride	0.20		0.10		mg/L			12/12/21 12:55	1
Sulfate	28	^	5.0		mg/L			12/07/21 17:08	1

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-08

Lab Sample ID: 500-209044-4

Date Collected: 12/01/21 09:25

Matrix: Water

Date Received: 12/02/21 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:19	1
Arsenic	0.0025		0.0010		mg/L		12/15/21 10:08	12/16/21 14:19	1
Barium	0.11		0.0025		mg/L		12/15/21 10:08	12/16/21 14:19	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:19	1
Boron	0.64		0.050		mg/L		12/15/21 10:08	12/17/21 12:17	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:19	1
Calcium	110		0.20		mg/L		12/15/21 10:08	12/16/21 14:19	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:19	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:19	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:19	1
Lithium	0.023		0.0020		mg/L		12/15/21 10:08	12/16/21 14:19	1
Molybdenum	0.011		0.0050		mg/L		12/15/21 10:08	12/16/21 14:19	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:19	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	690		10		mg/L			12/07/21 03:05	1
Chloride	97		10		mg/L			12/07/21 15:26	5
Fluoride	0.36		0.10		mg/L			12/12/21 12:58	1
Sulfate	66	^	15		mg/L			12/07/21 17:08	3

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-18

Lab Sample ID: 500-209044-5

Date Collected: 12/01/21 10:21

Matrix: Water

Date Received: 12/02/21 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:23	1
Arsenic	0.0036		0.0010		mg/L		12/15/21 10:08	12/16/21 14:23	1
Barium	0.15		0.0025		mg/L		12/15/21 10:08	12/16/21 14:23	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:23	1
Boron	0.61		0.050		mg/L		12/15/21 10:08	12/17/21 12:20	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:23	1
Calcium	140		0.20		mg/L		12/15/21 10:08	12/16/21 14:23	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:23	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:23	1
Lead	0.00062		0.00050		mg/L		12/15/21 10:08	12/16/21 14:23	1
Lithium	0.015		0.0020		mg/L		12/15/21 10:08	12/16/21 14:23	1
Molybdenum	0.018		0.0050		mg/L		12/15/21 10:08	12/16/21 14:23	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:23	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			12/07/21 03:08	1
Chloride	150		10		mg/L			12/07/21 15:26	5
Fluoride	0.59		0.10		mg/L			12/12/21 13:01	1
Sulfate	310	^	50		mg/L			12/07/21 17:08	10

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-11

Lab Sample ID: 500-209044-6

Date Collected: 12/01/21 11:55

Matrix: Water

Date Received: 12/02/21 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:26	1
Arsenic	0.0093		0.0010		mg/L		12/15/21 10:08	12/16/21 14:26	1
Barium	0.17		0.0025		mg/L		12/15/21 10:08	12/16/21 14:26	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:26	1
Boron	1.2		0.25		mg/L		12/15/21 10:08	12/17/21 12:23	5
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:26	1
Calcium	100		0.20		mg/L		12/15/21 10:08	12/16/21 14:26	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:26	1
Cobalt	0.0019		0.0010		mg/L		12/15/21 10:08	12/16/21 14:26	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:26	1
Lithium	0.0067		0.0020		mg/L		12/15/21 10:08	12/16/21 14:26	1
Molybdenum	0.032		0.0050		mg/L		12/15/21 10:08	12/16/21 14:26	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:26	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	850		10		mg/L			12/07/21 03:10	1
Chloride	85		10		mg/L			12/07/21 15:27	5
Fluoride	0.67		0.10		mg/L			12/12/21 13:05	1
Sulfate	160	^	25		mg/L			12/07/21 17:09	5

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-19

Lab Sample ID: 500-209044-7

Date Collected: 12/01/21 12:58

Matrix: Water

Date Received: 12/02/21 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:30	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:30	1
Barium	0.070		0.0025		mg/L		12/15/21 10:08	12/16/21 14:30	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:30	1
Boron	3.5		0.50		mg/L		12/15/21 10:08	12/17/21 12:27	10
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:30	1
Calcium	89		0.20		mg/L		12/15/21 10:08	12/16/21 14:30	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:30	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:30	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:30	1
Lithium	0.0038		0.0020		mg/L		12/15/21 10:08	12/16/21 14:30	1
Molybdenum	0.050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:30	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:30	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	620		10		mg/L			12/07/21 03:13	1
Chloride	31		2.0		mg/L			12/07/21 15:26	1
Fluoride	0.17		0.10		mg/L			12/12/21 13:08	1
Sulfate	120	^	25		mg/L			12/07/21 17:09	5

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: Duplicate

Lab Sample ID: 500-209044-8

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/02/21 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:45	1
Arsenic	0.0024		0.0010		mg/L		12/15/21 10:08	12/16/21 14:45	1
Barium	0.12		0.0025		mg/L		12/15/21 10:08	12/16/21 14:45	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:45	1
Boron	0.53		0.050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Calcium	120		0.20		mg/L		12/15/21 10:08	12/16/21 14:45	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:45	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Lithium	0.011		0.0020		mg/L		12/15/21 10:08	12/16/21 14:45	1
Molybdenum	0.021		0.0050		mg/L		12/15/21 10:08	12/16/21 14:45	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:45	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			12/07/21 03:15	1
Chloride	150		10		mg/L			12/07/21 15:27	5
Fluoride	0.59		0.10		mg/L			12/12/21 13:11	1
Sulfate	300	^	50		mg/L			12/07/21 17:10	10

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-12

Lab Sample ID: 500-209044-9

Date Collected: 12/01/21 14:18

Matrix: Water

Date Received: 12/02/21 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:48	1
Arsenic	0.018		0.0010		mg/L		12/15/21 10:08	12/16/21 14:48	1
Barium	0.045		0.0025		mg/L		12/15/21 10:08	12/16/21 14:48	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:48	1
Boron	0.53		0.050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Calcium	72		0.20		mg/L		12/15/21 10:08	12/16/21 14:48	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:48	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Lithium	0.0090		0.0020		mg/L		12/15/21 10:08	12/16/21 14:48	1
Molybdenum	0.017		0.0050		mg/L		12/15/21 10:08	12/16/21 14:48	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:48	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730		10		mg/L			12/07/21 03:18	1
Chloride	130		10		mg/L			12/07/21 15:28	5
Fluoride	0.52		0.10		mg/L			12/12/21 13:14	1
Sulfate	170	^	25		mg/L			12/07/21 17:10	5

Client Sample Results

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

Job ID: 500-209044-1

Client Sample ID: MW-09

Lab Sample ID: 500-209044-10

Date Collected: 12/01/21 15:15

Matrix: Water

Date Received: 12/02/21 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 14:52	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:52	1
Barium	0.036		0.0025		mg/L		12/15/21 10:08	12/16/21 14:52	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:52	1
Boron	3.2		0.050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Calcium	79		0.20		mg/L		12/15/21 10:08	12/16/21 14:52	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 14:52	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Lithium	0.0021		0.0020		mg/L		12/15/21 10:08	12/16/21 14:52	1
Molybdenum	0.028		0.0050		mg/L		12/15/21 10:08	12/16/21 14:52	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 14:52	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 14:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	570		10		mg/L			12/07/21 03:20	1
Chloride	32		2.0		mg/L			12/07/21 15:29	1
Fluoride	0.20		0.10		mg/L			12/12/21 13:18	1
Sulfate	100	^	25		mg/L			12/07/21 17:12	5

Definitions/Glossary

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

Job ID: 500-209044-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

QC Association Summary

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

Job ID: 500-209044-1

Metals

Prep Batch: 632927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	7470A	
500-209044-2	MW-17	Total/NA	Water	7470A	
500-209044-3	MW-01	Total/NA	Water	7470A	
500-209044-4	MW-08	Total/NA	Water	7470A	
500-209044-5	MW-18	Total/NA	Water	7470A	
500-209044-6	MW-11	Total/NA	Water	7470A	
500-209044-7	MW-19	Total/NA	Water	7470A	
500-209044-8	Duplicate	Total/NA	Water	7470A	
500-209044-9	MW-12	Total/NA	Water	7470A	
500-209044-10	MW-09	Total/NA	Water	7470A	
MB 500-632927/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-632927/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-209044-6 MS	MW-11	Total/NA	Water	7470A	
500-209044-6 MSD	MW-11	Total/NA	Water	7470A	
500-209044-6 DU	MW-11	Total/NA	Water	7470A	

Analysis Batch: 633162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	7470A	632927
500-209044-2	MW-17	Total/NA	Water	7470A	632927
500-209044-3	MW-01	Total/NA	Water	7470A	632927
500-209044-4	MW-08	Total/NA	Water	7470A	632927
500-209044-5	MW-18	Total/NA	Water	7470A	632927
500-209044-6	MW-11	Total/NA	Water	7470A	632927
500-209044-7	MW-19	Total/NA	Water	7470A	632927
500-209044-8	Duplicate	Total/NA	Water	7470A	632927
500-209044-9	MW-12	Total/NA	Water	7470A	632927
500-209044-10	MW-09	Total/NA	Water	7470A	632927
MB 500-632927/12-A	Method Blank	Total/NA	Water	7470A	632927
LCS 500-632927/13-A	Lab Control Sample	Total/NA	Water	7470A	632927
500-209044-6 MS	MW-11	Total/NA	Water	7470A	632927
500-209044-6 MSD	MW-11	Total/NA	Water	7470A	632927
500-209044-6 DU	MW-11	Total/NA	Water	7470A	632927

Prep Batch: 633817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total Recoverable	Water	3005A	
500-209044-2	MW-17	Total Recoverable	Water	3005A	
500-209044-3	MW-01	Total Recoverable	Water	3005A	
500-209044-4	MW-08	Total Recoverable	Water	3005A	
500-209044-5	MW-18	Total Recoverable	Water	3005A	
500-209044-6	MW-11	Total Recoverable	Water	3005A	
500-209044-7	MW-19	Total Recoverable	Water	3005A	
500-209044-8	Duplicate	Total Recoverable	Water	3005A	
500-209044-9	MW-12	Total Recoverable	Water	3005A	
500-209044-10	MW-09	Total Recoverable	Water	3005A	
MB 500-633817/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-633817/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

QC Association Summary

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

Job ID: 500-209044-1

Metals

Analysis Batch: 634252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total Recoverable	Water	6020A	633817
500-209044-2	MW-17	Total Recoverable	Water	6020A	633817
500-209044-3	MW-01	Total Recoverable	Water	6020A	633817
500-209044-4	MW-08	Total Recoverable	Water	6020A	633817
500-209044-5	MW-18	Total Recoverable	Water	6020A	633817
500-209044-6	MW-11	Total Recoverable	Water	6020A	633817
500-209044-7	MW-19	Total Recoverable	Water	6020A	633817
500-209044-8	Duplicate	Total Recoverable	Water	6020A	633817
500-209044-9	MW-12	Total Recoverable	Water	6020A	633817
500-209044-10	MW-09	Total Recoverable	Water	6020A	633817
MB 500-633817/1-A	Method Blank	Total Recoverable	Water	6020A	633817
LCS 500-633817/2-A	Lab Control Sample	Total Recoverable	Water	6020A	633817

Analysis Batch: 634287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total Recoverable	Water	6020A	633817
500-209044-2	MW-17	Total Recoverable	Water	6020A	633817
500-209044-3	MW-01	Total Recoverable	Water	6020A	633817
500-209044-4	MW-08	Total Recoverable	Water	6020A	633817
500-209044-5	MW-18	Total Recoverable	Water	6020A	633817
500-209044-6	MW-11	Total Recoverable	Water	6020A	633817
500-209044-7	MW-19	Total Recoverable	Water	6020A	633817
MB 500-633817/1-A	Method Blank	Total Recoverable	Water	6020A	633817
LCS 500-633817/2-A	Lab Control Sample	Total Recoverable	Water	6020A	633817

General Chemistry

Analysis Batch: 631530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	SM 2540C	
500-209044-2	MW-17	Total/NA	Water	SM 2540C	
MB 500-631530/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-631530/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 631704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-209044-2	MW-17	Total/NA	Water	SM 4500 Cl- E	
MB 500-631704/84	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-631704/85	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 631705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-209044-2	MW-17	Total/NA	Water	SM 4500 SO4 E	
MB 500-631705/38	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-631705/42	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 631726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-209044-1

General Chemistry (Continued)

Analysis Batch: 631726 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-631726/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-631726/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 632354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-4	MW-08	Total/NA	Water	SM 2540C	
500-209044-5	MW-18	Total/NA	Water	SM 2540C	
500-209044-6	MW-11	Total/NA	Water	SM 2540C	
500-209044-7	MW-19	Total/NA	Water	SM 2540C	
500-209044-8	Duplicate	Total/NA	Water	SM 2540C	
500-209044-9	MW-12	Total/NA	Water	SM 2540C	
500-209044-10	MW-09	Total/NA	Water	SM 2540C	
MB 500-632354/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-632354/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 632730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-209044-4	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-209044-5	MW-18	Total/NA	Water	SM 4500 Cl- E	
500-209044-6	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-209044-7	MW-19	Total/NA	Water	SM 4500 Cl- E	
500-209044-8	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-209044-9	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-209044-10	MW-09	Total/NA	Water	SM 4500 Cl- E	
MB 500-632730/103	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-632730/160	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-632730/161	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-632730/73	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-209044-9 MS	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-209044-9 MSD	MW-12	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 632731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-209044-4	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-209044-5	MW-18	Total/NA	Water	SM 4500 SO4 E	
500-209044-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-209044-7	MW-19	Total/NA	Water	SM 4500 SO4 E	
500-209044-8	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-209044-9	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-209044-10	MW-09	Total/NA	Water	SM 4500 SO4 E	
MB 500-632731/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-632731/46	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-632731/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-632731/48	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-209044-9 MS	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-209044-9 MSD	MW-12	Total/NA	Water	SM 4500 SO4 E	

QC Association Summary

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

Job ID: 500-209044-1

General Chemistry

Analysis Batch: 633284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	SM 4500 F C	
500-209044-2	MW-17	Total/NA	Water	SM 4500 F C	
500-209044-3	MW-01	Total/NA	Water	SM 4500 F C	
500-209044-4	MW-08	Total/NA	Water	SM 4500 F C	
500-209044-5	MW-18	Total/NA	Water	SM 4500 F C	
500-209044-6	MW-11	Total/NA	Water	SM 4500 F C	
500-209044-7	MW-19	Total/NA	Water	SM 4500 F C	
500-209044-8	Duplicate	Total/NA	Water	SM 4500 F C	
500-209044-9	MW-12	Total/NA	Water	SM 4500 F C	
500-209044-10	MW-09	Total/NA	Water	SM 4500 F C	
MB 500-633284/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-633284/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

Job ID: 500-209044-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-633817/1-A
Matrix: Water
Analysis Batch: 634252

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633817

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:08	12/16/21 13:58	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 13:58	1
Barium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 13:58	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 13:58	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 13:58	1
Calcium	<0.20		0.20		mg/L		12/15/21 10:08	12/16/21 13:58	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 13:58	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:08	12/16/21 13:58	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:08	12/16/21 13:58	1
Lithium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 13:58	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/21 10:08	12/16/21 13:58	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:08	12/16/21 13:58	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:08	12/16/21 13:58	1

Lab Sample ID: MB 500-633817/1-A
Matrix: Water
Analysis Batch: 634287

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633817

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		12/15/21 10:08	12/17/21 11:45	1

Lab Sample ID: LCS 500-633817/2-A
Matrix: Water
Analysis Batch: 634252

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	0.500	0.528		mg/L		106	80 - 120
Beryllium	0.0500	0.0496		mg/L		99	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	10.0	9.72		mg/L		97	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.528		mg/L		106	80 - 120
Lead	0.100	0.112		mg/L		112	80 - 120
Lithium	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	0.997		mg/L		100	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

Lab Sample ID: LCS 500-633817/2-A
Matrix: Water
Analysis Batch: 634287

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

QC Sample Results

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

Job ID: 500-209044-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-632927/12-A
Matrix: Water
Analysis Batch: 633162

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632927

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/09/21 10:00	12/10/21 08:17	1

Lab Sample ID: LCS 500-632927/13-A
Matrix: Water
Analysis Batch: 633162

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632927

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00209		mg/L		105	80 - 120

Lab Sample ID: 500-209044-6 MS
Matrix: Water
Analysis Batch: 633162

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 632927

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: 500-209044-6 MSD
Matrix: Water
Analysis Batch: 633162

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 632927

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00106		mg/L		106	75 - 125	1	20

Lab Sample ID: 500-209044-6 DU
Matrix: Water
Analysis Batch: 633162

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 632927

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 500-631530/1
Matrix: Water
Analysis Batch: 631530

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			12/01/21 04:42	1

Lab Sample ID: LCS 500-631530/2
Matrix: Water
Analysis Batch: 631530

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

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

QC Sample Results

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

Job ID: 500-209044-1

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

Lab Sample ID: MB 500-631726/1
Matrix: Water
Analysis Batch: 631726

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			12/02/21 04:57	1

Lab Sample ID: LCS 500-631726/2
Matrix: Water
Analysis Batch: 631726

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	242		mg/L		97	80 - 120

Lab Sample ID: MB 500-632354/1
Matrix: Water
Analysis Batch: 632354

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			12/07/21 02:37	1

Lab Sample ID: LCS 500-632354/2
Matrix: Water
Analysis Batch: 632354

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	244		mg/L		98	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-631704/84
Matrix: Water
Analysis Batch: 631704

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			12/01/21 12:47	1

Lab Sample ID: LCS 500-631704/85
Matrix: Water
Analysis Batch: 631704

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	20.2		mg/L		101	85 - 115

Lab Sample ID: MB 500-632730/103
Matrix: Water
Analysis Batch: 632730

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			12/07/21 15:27	1

QC Sample Results

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

Job ID: 500-209044-1

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

Lab Sample ID: MB 500-632730/160
Matrix: Water
Analysis Batch: 632730

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			12/07/21 15:55	1

Lab Sample ID: LCS 500-632730/161
Matrix: Water
Analysis Batch: 632730

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	22.6		mg/L		113	85 - 115

Lab Sample ID: LCS 500-632730/73
Matrix: Water
Analysis Batch: 632730

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	20.5		mg/L		102	85 - 115

Lab Sample ID: 500-209044-9 MS
Matrix: Water
Analysis Batch: 632730

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
Chloride	130		20.0	141	4	mg/L		79	75 - 125

Lab Sample ID: 500-209044-9 MSD
Matrix: Water
Analysis Batch: 632730

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
Chloride	130		20.0	141	4	mg/L		76	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-633284/3
Matrix: Water
Analysis Batch: 633284

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			12/12/21 12:09	1

Lab Sample ID: LCS 500-633284/4
Matrix: Water
Analysis Batch: 633284

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.7		mg/L		107	90 - 119

QC Sample Results

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

Job ID: 500-209044-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-631705/38
Matrix: Water
Analysis Batch: 631705

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			12/01/21 14:16	1

Lab Sample ID: LCS 500-631705/42
Matrix: Water
Analysis Batch: 631705

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	21.7		mg/L		109	88 - 123

Lab Sample ID: MB 500-632731/15
Matrix: Water
Analysis Batch: 632731

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			12/07/21 17:01	1

Lab Sample ID: MB 500-632731/46
Matrix: Water
Analysis Batch: 632731

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			12/07/21 17:09	1

Lab Sample ID: LCS 500-632731/16
Matrix: Water
Analysis Batch: 632731

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	20.8	^+ ^-	mg/L		104	88 - 123

Lab Sample ID: LCS 500-632731/48
Matrix: Water
Analysis Batch: 632731

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	22.8	^-	mg/L		114	88 - 123

Lab Sample ID: 500-209044-9 MS
Matrix: Water
Analysis Batch: 632731

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	170	^-	20.0	184	4 ^-	mg/L		78	75 - 125

Lab Sample ID: 500-209044-9 MSD
Matrix: Water
Analysis Batch: 632731

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	170	^-	20.0	183	4 ^-	mg/L		73	75 - 125	1	20

Eurofins TestAmerica, Chicago

TestAmerica Chicago

2417 Bond Street

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211


Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.


Regulatory Program: DW NPDES RCRA Other

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station Pekin IL P O # 4501908159		Project Manager Rich Gnat Tel/Fax (262) 781-0475		Site Contact Mitchel Dolan Lab Contact Diana Mockler		Date 11/29/21 Carrier: FedEx		COC No of COCs							
 500-209044 COC		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)		Sampler For Lab Use Only Walk-in Client Lab Sampling Job / SDG No 500-209044							
		Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	903.0 904.0 Radium 226/228 + Combined	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS
1 2		MW-15	11/29	1544	G	W	7	N	N	X	X	X	X	X	
		MW-17	11/29	1447	G	W	7			X	X	X	X		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other								4 4 4 1 1 1 1							
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd 0.8 Corr'd		Therm ID No									
Relinquished by Mitchel Dolan <i>MDD</i>		Company KPRG		Date/Time 11/29/2021		Received by FedEx		Company							
Relinquished by		Company		Date/Time		Received by		Company							
Relinquished by		Company		Date/Time		Received by Laboratory by <i>Alan Santos</i>		Company <i>PTP</i>							
								Date/Time 11/30/21 1040							

Form No. CA-C-WI-002, Rev 4.18, dated 9/5/2018

Chain of Custody Record


Regulatory Program: DW NPDES RCRA Other

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781 0475 Phone (262) 781 0478 FAX Project Name Powerton CCR Site Powerton Station Pekin IL P O # 4501908159		Project Manager Rich Gnat Tel/Fax (262) 781-0475		Site Contact Mitchel Dolan Lab Contact Diana Mockler		Date Carrier FedEx		COC No _____ of _____ COCs												
		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903 0 904 0 Radium 226/228 + Combine 6020A, 7470A 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CL_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		500-209044 COC 		Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____												
								Job / SDG No 500-209044		Sample Specific Notes										
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont														
3 MW-01		11/30	1115	G	W	7	N	X	X	X	X	X	X	X	X	X	X	X	X	
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____							4	4	4	1	1	1	1							
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months													
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																				
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd 1.3		Corr'd _____		Therm ID No _____												
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 11/30 16:30		Received by FedEx		Company _____												
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____												
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by <i>Suzanne Hernandez</i>		Company ETA-GH												
								Date/Time 12/1/21 1030												

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact		Project Manager Rich Gnat		Site Contact Mitchel Dolan		Date		COC No								
KPRG and Associates Inc		Tel/Fax (262) 781-0475		Lab Contact Diana Mockler		Carrier FedEx		_____ of _____ COCs								
14665 West Lisbon Road Suite 1A		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903 0 904 0 Radium 226/228 + Combine 6020A, 7470A 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CLE - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		 500-209044 COC		Sampler								
Brookfield WI 53154		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						For Lab Use Only								
(262) 781-0475 Phone								Walk-in Client								
(262) 781-0478 FAX								Lab Sampling								
Project Name Powerton CCR								Job / SDG No								
Site Powerton Station Pekin IL				500-209044												
P O # 4501908159																
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes									
4	MW-08	12/1	9:25	G	W	7	N	X	X	X	X	X	X	X	X	
5	MW-18	12/1	10:21	G	W	7		X	X	X	X	X	X	X	X	
6	MW-11	12/1	11:55	G	W	7		X	X	X	X	X	X	X	X	
7	MW-19	12/1	12:58	G	W	7		X	X	X	X	X	X	X	X	
8	Duplicate	12/1	/	G	W	7		X	X	X	X	X	X	X	X	
9	MW-12	12/1	14:18	G	W	7		X	X	X	X	X	X	X	X	
10	MW-9	12/1	15:15	G	W	7		X	X	X	X	X	X	X	X	
Preservation Used. 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____							4	4	4	1	1	1	1			
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____		08,14,21,1,0								
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 12/1 17:30		Received by FedEx		Company _____ Date/Time _____								
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____ Date/Time _____								
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by Stephanie Hernandez		Company ETA-CHI Date/Time 12/21 1025								



500-209044 Wayb

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

SHIP DATE: 29NOV21
ACTWGT: 44.20 LB
CAD: 6994779/SSFE2220
DIMS: 24x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO **TESTAMERICA CHICAGO**
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

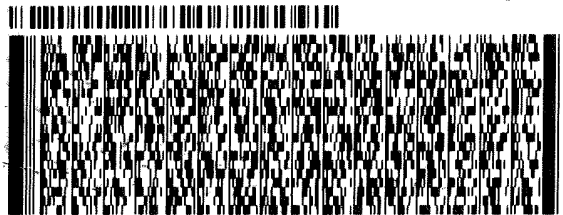
(708) 694-6200

REF:

INV:

DEPT:

PG:



FedEx
Express

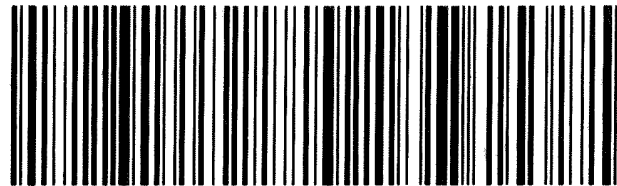


TUE - 30 NOV 11:30A
PRIORITY OVERNIGHT

TRK# 2867 7764 4978
0201

XN JOTA

60484
IL-US ORD



Part # 156297-436 RRDVW2 EXP 04/22

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ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 30NOV21
ACTWGT: 40.00 LB
CAD: 6994779/SSFE2220
DIMS: 24x18x12 IN
BILL THIRD PARTY

Part # 156297-435 RRDW2 EXP 04/22



500-209044 Wayt

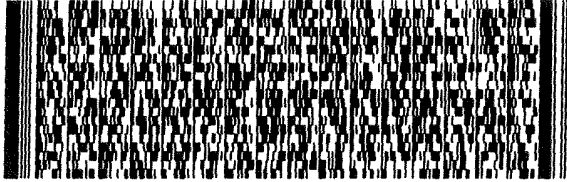
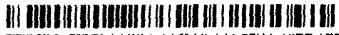
TO **SAMPLE RECEIVING**
EURONFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200
INU:
PO:

REF:

DEPT:



FedEx
Express



1 of 5

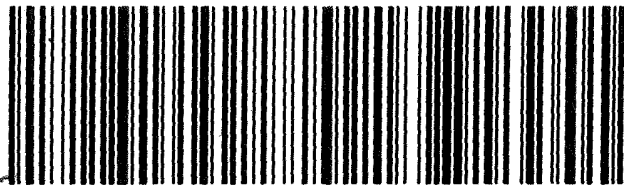
TRK# 2868 5314 7258
0201

MASTER

XN JOTA

WED - 01 DEC 11:30A
PRIORITY OVERNIGHT

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500-209044 Wayb

ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 58.40 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN
BILL THIRD PARTY

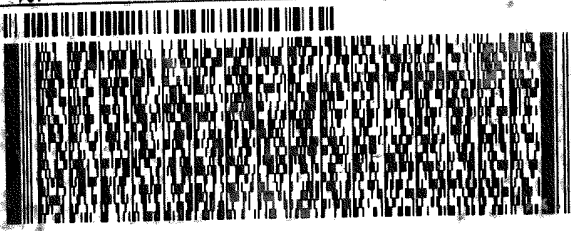
Part # 156297-485-3888-4885-10/22

TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

0.8

UNIVERSITY PARK IL 60484

(555) 555-5555 REF: THU: PO: DEPT:

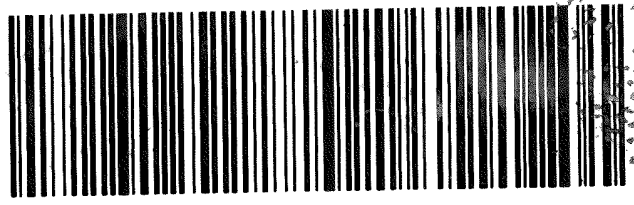


THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

TRK# 2869 2022 5923
0201

XN JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 52.65 LB
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BILL THIRD PARTY

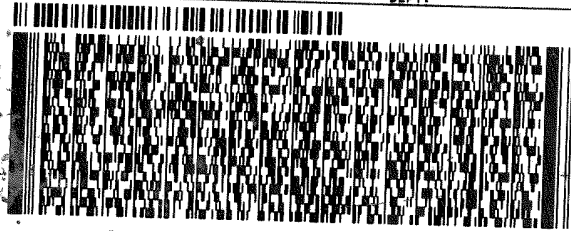
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TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

h-1

UNIVERSITY PARK IL 60484

(555) 555-5555 REF: THU: PO: DEPT:

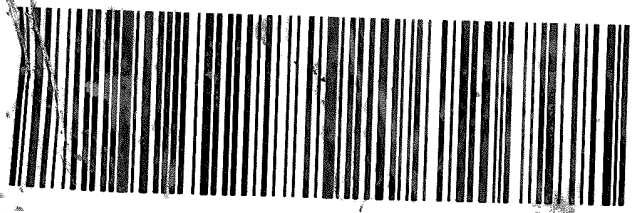


THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

TRK# 2869 2018 7013
0201

XN JOTA

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CLP

ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 59.65 LB
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DIMS: 24x13x13 IN

BILL THIRD PARTY

Part # 156297-4051 (PRIORITY SERVICE 10/22)

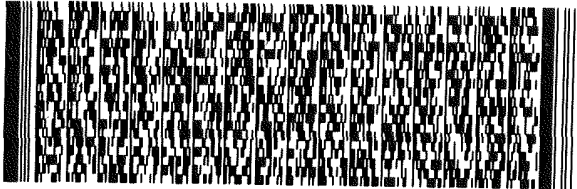
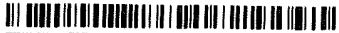
TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(555) 555-5555
INU:
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DEPT:



FedEx
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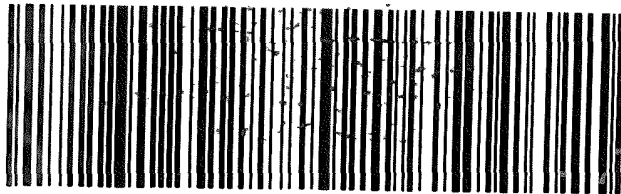
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3785346

TRK#
0201 2869 2026 1564

THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

XN JOTA

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IL-US ORD



ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
ACTWGT: 42.50 LB
CAD: 6994780/SSFE2220
DIMS: 24x13x13 IN

BILL THIRD PARTY

Part # 156297-4051 (PRIORITY SERVICE 10/22)

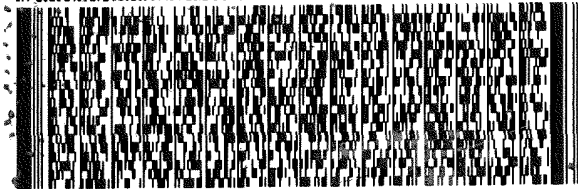
TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(555) 555-5555
INU:
PO:

REF:

DEPT:



FedEx
Express



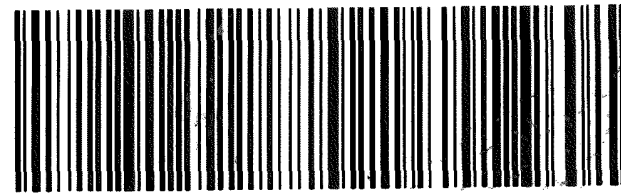
REL#
3785346

TRK#
0201 2869 2014 8976

THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209044-1

Login Number: 209044

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8,1.3,0.8,1.4,2.1,1.0
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.	False	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-209044-1

Client Sample ID: MW-15
Date Collected: 11/29/21 15:44
Date Received: 11/30/21 10:40

Lab Sample ID: 500-209044-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	634287	12/17/21 11:55	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	631530	12/01/21 05:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	631704	12/01/21 13:41	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 12:37	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	631705	12/01/21 14:22	RES	TAL CHI

Client Sample ID: MW-17
Date Collected: 11/29/21 14:47
Date Received: 11/30/21 10:40

Lab Sample ID: 500-209044-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	634287	12/17/21 11:59	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	631530	12/01/21 05:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	631704	12/01/21 12:52	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 12:52	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	631705	12/01/21 14:23	RES	TAL CHI

Client Sample ID: MW-01
Date Collected: 11/30/21 11:15
Date Received: 12/01/21 10:30

Lab Sample ID: 500-209044-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:16	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634287	12/17/21 12:13	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:26	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	631726	12/02/21 05:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	632730	12/07/21 15:26	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 12:55	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	632731	12/07/21 17:08	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-209044-1

Client Sample ID: MW-08
Date Collected: 12/01/21 09:25
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:19	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634287	12/17/21 12:17	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:28	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:05	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	632730	12/07/21 15:26	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 12:58	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	632731	12/07/21 17:08	RES	TAL CHI

Client Sample ID: MW-18
Date Collected: 12/01/21 10:21
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634287	12/17/21 12:20	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:08	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	632730	12/07/21 15:26	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:01	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	632731	12/07/21 17:08	RES	TAL CHI

Client Sample ID: MW-11
Date Collected: 12/01/21 11:55
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	634287	12/17/21 12:23	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:10	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	632730	12/07/21 15:27	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	632731	12/07/21 17:09	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-209044-1

Client Sample ID: MW-19

Lab Sample ID: 500-209044-7

Date Collected: 12/01/21 12:58

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:30	FXG	TAL CHI
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	634287	12/17/21 12:27	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:50	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:13	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	632730	12/07/21 15:26	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:08	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	632731	12/07/21 17:09	RES	TAL CHI

Client Sample ID: Duplicate

Lab Sample ID: 500-209044-8

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:45	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	632730	12/07/21 15:27	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:11	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	632731	12/07/21 17:10	RES	TAL CHI

Client Sample ID: MW-12

Lab Sample ID: 500-209044-9

Date Collected: 12/01/21 14:18

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:48	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:54	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:18	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	632730	12/07/21 15:28	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:14	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	632731	12/07/21 17:10	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-209044-1

Client Sample ID: MW-09

Lab Sample ID: 500-209044-10

Date Collected: 12/01/21 15:15

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633817	12/15/21 10:08	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634252	12/16/21 14:52	FXG	TAL CHI
Total/NA	Prep	7470A			632927	12/09/21 10:00	MJG	TAL CHI
Total/NA	Analysis	7470A		1	633162	12/10/21 08:56	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632354	12/07/21 03:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	632730	12/07/21 15:29	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	633284	12/12/21 13:18	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	632731	12/07/21 17:12	RES	TAL CHI

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 500-209044-1

Laboratory: Eurofins TestAmerica, Chicago

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

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-209044-2
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat



Authorized for release by:
12/30/2021 8:38:46 AM

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

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

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



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Case Narrative

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

Job ID: 500-209044-2

Job ID: 500-209044-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-209044-2

Comments

No additional comments.

Receipt

The samples were received on 11/30/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.8° C, 0.8° C, 1.0° C, 1.3° C, 1.4° C and 2.1° C.

Receipt Exceptions

Received 1 of the 1L Rad bottles empty for sample 1.

RAD

Method 903.0: Radium 226 batch 540012

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

MW-01 (500-209044-3), (LCS 160-540012/1-A), (MB 160-540012/9-A), (500-209031-K-3-A) and (500-209031-L-3-A DU)

Method 903.0: Radium 226 batch 539820

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

MW-15 (500-209044-1), MW-17 (500-209044-2), (LCS 160-539820/1-A), (MB 160-539820/9-A) and (500-209044-E-1-A DU)

Methods 903.0, 9315: Radium 226 batch 540463

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

MW-08 (500-209044-4), MW-18 (500-209044-5), MW-11 (500-209044-6), MW-19 (500-209044-7), Duplicate (500-209044-8), MW-12 (500-209044-9), MW-09 (500-209044-10), (LCS 160-540463/1-A), (MB 160-540463/23-A), (500-209031-J-16-B) and (500-209031-L-16-B DU)

Method 904.0: Radium 228 batch 540013

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

MW-01 (500-209044-3), (LCS 160-540013/1-A), (MB 160-540013/9-A), (500-209031-K-3-B) and (500-209031-L-3-B DU)

Methods 904.0, 9320: Radium 228 batch 540614

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

MW-08 (500-209044-4), MW-18 (500-209044-5), MW-11 (500-209044-6), MW-19 (500-209044-7), Duplicate (500-209044-8), MW-12 (500-209044-9), MW-09 (500-209044-10), (LCS 160-540614/1-A), (MB 160-540614/23-A), (500-209031-J-16-C) and (500-209031-L-16-C DU)

Method 904.0: Radium 228 batch 539821

Case Narrative

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

Job ID: 500-209044-2

Job ID: 500-209044-2 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

The LCS recovered at (134%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (61-138) per method requirements. The LCS passes, no further action is required (LCS 160-539821/1-A)

Method 904.0: Radium 228 batch 539821

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

MW-15 (500-209044-1), MW-17 (500-209044-2), (LCS 160-539821/1-A), (MB 160-539821/9-A) and (500-209044-E-1-B DU)

Method PrecSep_0:

MW-15 (500-209044-1), MW-17 (500-209044-2) and (500-209044-E-1 DU)

Method PrecSep-21:

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



Method Summary

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

Job ID: 500-209044-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-209044-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209044-1	MW-15	Water	11/29/21 15:44	11/30/21 10:40
500-209044-2	MW-17	Water	11/29/21 14:47	11/30/21 10:40
500-209044-3	MW-01	Water	11/30/21 11:15	12/01/21 10:30
500-209044-4	MW-08	Water	12/01/21 09:25	12/02/21 10:25
500-209044-5	MW-18	Water	12/01/21 10:21	12/02/21 10:25
500-209044-6	MW-11	Water	12/01/21 11:55	12/02/21 10:25
500-209044-7	MW-19	Water	12/01/21 12:58	12/02/21 10:25
500-209044-8	Duplicate	Water	12/01/21 00:00	12/02/21 10:25
500-209044-9	MW-12	Water	12/01/21 14:18	12/02/21 10:25
500-209044-10	MW-09	Water	12/01/21 15:15	12/02/21 10:25

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Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-15

Lab Sample ID: 500-209044-1

Date Collected: 11/29/21 15:44

Matrix: Water

Date Received: 11/30/21 10:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.229		0.0960	0.0982	1.00	0.102	pCi/L	12/02/21 11:59	12/27/21 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					12/02/21 11:59	12/27/21 12:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.420		0.244	0.247	1.00	0.360	pCi/L	12/02/21 12:15	12/16/21 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.8		40 - 110					12/02/21 12:15	12/16/21 09:32	1
Y Carrier	79.6		40 - 110					12/02/21 12:15	12/16/21 09:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.649		0.262	0.266	5.00	0.360	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-17

Lab Sample ID: 500-209044-2

Date Collected: 11/29/21 14:47

Matrix: Water

Date Received: 11/30/21 10:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0993	U	0.0725	0.0731	1.00	0.101	pCi/L	12/02/21 11:59	12/27/21 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					12/02/21 11:59	12/27/21 12:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.793		0.335	0.342	1.00	0.477	pCi/L	12/02/21 12:15	12/16/21 09:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		40 - 110					12/02/21 12:15	12/16/21 09:32	1
Y Carrier	78.1		40 - 110					12/02/21 12:15	12/16/21 09:32	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.892		0.343	0.350	5.00	0.477	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-01
Date Collected: 11/30/21 11:15
Date Received: 12/01/21 10:30

Lab Sample ID: 500-209044-3
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0669	U	0.0852	0.0854	1.00	0.142	pCi/L	12/03/21 09:07	12/27/21 12:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					12/03/21 09:07	12/27/21 12:05	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.03		0.403	0.414	1.00	0.568	pCi/L	12/03/21 09:36	12/13/21 09:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.4		40 - 110					12/03/21 09:36	12/13/21 09:43	1
Y Carrier	77.4		40 - 110					12/03/21 09:36	12/13/21 09:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.10		0.412	0.423	5.00	0.568	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-08
Date Collected: 12/01/21 09:25
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-4
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.338		0.139	0.143	1.00	0.172	pCi/L	12/06/21 13:34	12/29/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					12/06/21 13:34	12/29/21 07:18	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.678		0.395	0.400	1.00	0.602	pCi/L	12/06/21 15:12	12/16/21 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.1		40 - 110					12/06/21 15:12	12/16/21 13:38	1
Y Carrier	81.5		40 - 110					12/06/21 15:12	12/16/21 13:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.02		0.419	0.425	5.00	0.602	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-18

Lab Sample ID: 500-209044-5

Date Collected: 12/01/21 10:21

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193		0.130	0.131	1.00	0.185	pCi/L	12/06/21 13:34	12/29/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					12/06/21 13:34	12/29/21 07:18	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.270	U	0.312	0.313	1.00	0.514	pCi/L	12/06/21 15:12	12/16/21 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					12/06/21 15:12	12/16/21 13:38	1
Y Carrier	82.2		40 - 110					12/06/21 15:12	12/16/21 13:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.463	U	0.338	0.339	5.00	0.514	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-11
Date Collected: 12/01/21 11:55
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-6
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.413		0.157	0.162	1.00	0.178	pCi/L	12/06/21 13:34	12/29/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					12/06/21 13:34	12/29/21 07:18	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.888		0.373	0.382	1.00	0.513	pCi/L	12/06/21 15:12	12/16/21 13:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		40 - 110					12/06/21 15:12	12/16/21 13:38	1
Y Carrier	80.4		40 - 110					12/06/21 15:12	12/16/21 13:38	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.30		0.405	0.415	5.00	0.513	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-19

Lab Sample ID: 500-209044-7

Date Collected: 12/01/21 12:58

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.271		0.147	0.149	1.00	0.197	pCi/L	12/06/21 13:34	12/29/21 07:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					12/06/21 13:34	12/29/21 07:18	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.912		0.427	0.435	1.00	0.619	pCi/L	12/06/21 15:12	12/16/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.6		40 - 110					12/06/21 15:12	12/16/21 13:41	1
Y Carrier	80.0		40 - 110					12/06/21 15:12	12/16/21 13:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.18		0.452	0.460	5.00	0.619	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: Duplicate

Lab Sample ID: 500-209044-8

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178		0.108	0.109	1.00	0.149	pCi/L	12/06/21 13:34	12/29/21 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					12/06/21 13:34	12/29/21 07:22	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.431	U	0.320	0.323	1.00	0.502	pCi/L	12/06/21 15:12	12/16/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					12/06/21 15:12	12/16/21 13:41	1
Y Carrier	82.2		40 - 110					12/06/21 15:12	12/16/21 13:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.608		0.338	0.341	5.00	0.502	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-12

Lab Sample ID: 500-209044-9

Date Collected: 12/01/21 14:18

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.114	U	0.0802	0.0808	1.00	0.116	pCi/L	12/06/21 13:34	12/29/21 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					12/06/21 13:34	12/29/21 07:22	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.509		0.250	0.254	1.00	0.360	pCi/L	12/06/21 15:12	12/16/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		40 - 110					12/06/21 15:12	12/16/21 13:41	1
Y Carrier	83.0		40 - 110					12/06/21 15:12	12/16/21 13:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.623		0.263	0.267	5.00	0.360	pCi/L		12/29/21 21:29	1

Client Sample Results

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

Job ID: 500-209044-2

Client Sample ID: MW-09

Lab Sample ID: 500-209044-10

Date Collected: 12/01/21 15:15

Matrix: Water

Date Received: 12/02/21 10:25

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0705	U	0.0705	0.0708	1.00	0.112	pCi/L	12/06/21 13:34	12/29/21 07:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					12/06/21 13:34	12/29/21 07:22	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.236	U	0.226	0.227	1.00	0.365	pCi/L	12/06/21 15:12	12/16/21 13:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.5		40 - 110					12/06/21 15:12	12/16/21 13:41	1
Y Carrier	83.4		40 - 110					12/06/21 15:12	12/16/21 13:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.307	U	0.237	0.238	5.00	0.365	pCi/L		12/29/21 21:29	1

Definitions/Glossary

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

Job ID: 500-209044-2

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

Job ID: 500-209044-2

Rad

Prep Batch: 539820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	PrecSep-21	
500-209044-2	MW-17	Total/NA	Water	PrecSep-21	
MB 160-539820/9-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-539820/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-209044-1 DU	MW-15	Total/NA	Water	PrecSep-21	

Prep Batch: 539821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-1	MW-15	Total/NA	Water	PrecSep_0	
500-209044-2	MW-17	Total/NA	Water	PrecSep_0	
MB 160-539821/9-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-539821/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-209044-1 DU	MW-15	Total/NA	Water	PrecSep_0	

Prep Batch: 540012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	PrecSep-21	
MB 160-540012/9-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-540012/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 540013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-3	MW-01	Total/NA	Water	PrecSep_0	
MB 160-540013/9-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-540013/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 540463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-4	MW-08	Total/NA	Water	PrecSep-21	
500-209044-5	MW-18	Total/NA	Water	PrecSep-21	
500-209044-6	MW-11	Total/NA	Water	PrecSep-21	
500-209044-7	MW-19	Total/NA	Water	PrecSep-21	
500-209044-8	Duplicate	Total/NA	Water	PrecSep-21	
500-209044-9	MW-12	Total/NA	Water	PrecSep-21	
500-209044-10	MW-09	Total/NA	Water	PrecSep-21	
MB 160-540463/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-540463/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 540614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209044-4	MW-08	Total/NA	Water	PrecSep_0	
500-209044-5	MW-18	Total/NA	Water	PrecSep_0	
500-209044-6	MW-11	Total/NA	Water	PrecSep_0	
500-209044-7	MW-19	Total/NA	Water	PrecSep_0	
500-209044-8	Duplicate	Total/NA	Water	PrecSep_0	
500-209044-9	MW-12	Total/NA	Water	PrecSep_0	
500-209044-10	MW-09	Total/NA	Water	PrecSep_0	
MB 160-540614/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-540614/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-209044-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-539820/9-A
Matrix: Water
Analysis Batch: 543612

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539820

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03925	U	0.0632	0.0633	1.00	0.110	pCi/L	12/02/21 11:59	12/27/21 12:12	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					12/02/21 11:59	12/27/21 12:12	1
	92.8									

Lab Sample ID: LCS 160-539820/1-A
Matrix: Water
Analysis Batch: 543808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539820

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.49		1.10	1.00	0.0999	pCi/L	93	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	84.8								

Lab Sample ID: 500-209044-1 DU
Matrix: Water
Analysis Batch: 543808

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 539820

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.229		0.08334	U	0.0684	1.00	0.0985	pCi/L		1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	87.1									

Lab Sample ID: MB 160-540012/9-A
Matrix: Water
Analysis Batch: 543808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540012

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.06688	U	0.0598	0.0601	1.00	0.0892	pCi/L	12/03/21 09:07	12/27/21 12:07	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					12/03/21 09:07	12/27/21 12:07	1
	91.5									

Lab Sample ID: LCS 160-540012/1-A
Matrix: Water
Analysis Batch: 543808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540012

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.64		1.10	1.00	0.0978	pCi/L	94	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-209044-2

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

Lab Sample ID: LCS 160-540012/1-A
Matrix: Water
Analysis Batch: 543808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540012

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.3		40 - 110

Lab Sample ID: MB 160-540463/23-A
Matrix: Water
Analysis Batch: 543960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540463

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.04688	U	0.0613	0.0615	1.00	0.102	pCi/L	12/06/21 13:34	12/29/21 07:22	1

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.0		40 - 110

	Prepared	Analyzed	Dil Fac
Ba Carrier	12/06/21 13:34	12/29/21 07:22	1

Lab Sample ID: LCS 160-540463/1-A
Matrix: Water
Analysis Batch: 543959

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540463

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.45		1.08	1.00	0.0935	pCi/L	92	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.8		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-539821/9-A
Matrix: Water
Analysis Batch: 542362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 539821

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.7054		0.306	0.313	1.00	0.442	pCi/L	12/02/21 12:15	12/16/21 09:34	1

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.8		40 - 110
Y Carrier	81.5		40 - 110

	Prepared	Analyzed	Dil Fac
Ba Carrier	12/02/21 12:15	12/16/21 09:34	1
Y Carrier	12/02/21 12:15	12/16/21 09:34	1

Lab Sample ID: LCS 160-539821/1-A
Matrix: Water
Analysis Batch: 542362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539821

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-228	9.05	12.13		1.44	1.00	0.504	pCi/L	134	75 - 125

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-209044-2

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

Lab Sample ID: LCS 160-539821/1-A
Matrix: Water
Analysis Batch: 542362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 539821

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	84.8		40 - 110
Y Carrier	66.2		40 - 110

Lab Sample ID: 500-209044-1 DU
Matrix: Water
Analysis Batch: 542362

Client Sample ID: MW-15
Prep Type: Total/NA
Prep Batch: 539821

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
Radium-228	0.420		0.7800		0.304	1.00	0.401	pCi/L	0.65	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.1		40 - 110
Y Carrier	80.4		40 - 110

Lab Sample ID: MB 160-540013/9-A
Matrix: Water
Analysis Batch: 541684

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540013

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3020	U	0.236	0.238	1.00	0.370	pCi/L	12/03/21 09:36	12/13/21 09:44	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110	12/03/21 09:36	12/13/21 09:44	1
Y Carrier	80.4		40 - 110	12/03/21 09:36	12/13/21 09:44	1

Lab Sample ID: LCS 160-540013/1-A
Matrix: Water
Analysis Batch: 541682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540013

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	Limits
Radium-228	9.06	11.12		1.29	1.00	0.413	pCi/L	123	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.3		40 - 110
Y Carrier	77.4		40 - 110

Lab Sample ID: MB 160-540614/23-A
Matrix: Water
Analysis Batch: 542361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540614

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.1162	U	0.222	0.222	1.00	0.378	pCi/L	12/06/21 15:12	12/16/21 13:41	1

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QC Sample Results

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

Job ID: 500-209044-2

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

Lab Sample ID: MB 160-540614/23-A
Matrix: Water
Analysis Batch: 542361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540614

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	98.0		40 - 110
Y Carrier	87.1		40 - 110

Prepared	Analyzed	Dil Fac
12/06/21 15:12	12/16/21 13:41	1
12/06/21 15:12	12/16/21 13:41	1

Lab Sample ID: LCS 160-540614/1-A
Matrix: Water
Analysis Batch: 542370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540614

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
									75 - 125
Radium-228	9.05	9.618		1.13	1.00	0.369	pCi/L	106	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	93.8		40 - 110
Y Carrier	80.4		40 - 110

TestAmerica Chicago

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Chain of Custody Record

TestAmerica

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TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other

Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781-0475 Phone (262) 781-0478 FAX Project Name Powerton CCR Site Powerton Station Pekin IL P O # 4501908159		Project Manager Rich Gnat Tel/Fax (262) 781-0475		Site Contact Mitchel Dolan Lab Contact Diana Mockler		Date <u>11/29/21</u> Carrier: FedEx		COC No _____ of _____ COCs																																					
 500-209044 COC		Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Filtered Sample (Y/N) _____ Perform MS / MSD (Y/N) _____ 903.0 904.0 Radium 226/228 + Combined 6020A, 7470A 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CL_E - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No <u>500-209044</u>		Sample Specific Notes																																					
		<table border="1"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp G=Grab)</th> <th>Matrix</th> <th># of Cont.</th> <th>Filtered Sample (Y/N)</th> <th>Perform MS / MSD (Y/N)</th> <th>903.0 904.0 Radium 226/228 + Combined</th> <th>6020A, 7470A 14 Metals & Mercury</th> <th>6010C - Lithium</th> <th>4500_F_C - Fluoride</th> <th>SM4500_CL_E - Chloride</th> <th>SM4500_SO4_E - Sulfate</th> <th>2540C - TDS</th> </tr> </thead> <tbody> <tr> <td>MW-15</td> <td>11/29</td> <td>G</td> <td>W</td> <td>7</td> <td>N</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>MW-17</td> <td>11/29</td> <td>G</td> <td>W</td> <td>7</td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table>		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0 904.0 Radium 226/228 + Combined	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	MW-15	11/29	G	W	7	N	N	X	X	X	X	X	X	X	MW-17	11/29	G	W	7			X	X	X	X	X	X	X
Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903.0 904.0 Radium 226/228 + Combined	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS																																
MW-15	11/29	G	W	7	N	N	X	X	X	X	X	X	X																																
MW-17	11/29	G	W	7			X	X	X	X	X	X	X																																
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium										Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No _____ Cooler Temp (°C) Obs'd <u>0.8</u> Corr'd _____ Therm ID No _____																																			
Relinquished by Mitchel Dolan <i>MDD</i>		Company KPRG		Date/Time <u>11/29/2021</u>		Received by FedEx		Company _____		Date/Time <u>11/29/21 / 1700</u>																																			
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____																																			
Relinquished by _____		Company _____		Date/Time _____		Received by Laboratory by <i>Alan Santos</i>		Company <i>PTP</i>		Date/Time <u>11/30/21</u> <u>1040</u>																																			

Form No. CA-C-WI-002, Rev 4.18, dated 9/5/2018

TestAmerica Chicago

2417 Bond Street

University Park IL 60484 3101
phone 708 534 5200 fax 708 534 5211

Chain of Custody Record



TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other


Client Contact KPRG and Associates Inc 14665 West Lisbon Road Suite 1A Brookfield WI 53154 (262) 781 0475 Phone (262) 781 0478 FAX Project Name Powerton CCR Site Powerton Station Pekin IL P O # 4501908159		Project Manager Rich Gnat Tel/Fax (262) 781-0475 Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Site Contact Mitchel Dolan Lab Contact Diana Mockler Date _____ Carrier FedEx		COC No _____ of _____ COCs Sampler _____ For Lab Use Only Walk-in Client _____ Lab Sampling _____ Job / SDG No 500-209044											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	903 0 904 0 Radium 226/228 + Combine	6020A, 7470A 14 Metals & Mercury	6010C - Lithium	4500_F_C - Fluoride	SM4500_CL_E - Chloride	SM4500_SO4_E - Sulfate	2540C - TDS	500-209044 COC	Sample Specific Notes
3 MW-01		11/30	1115	G	W	1	N	N	X	X	X	X	X	X	X		
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____								4	4	4	1	1	1	1			
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No _____		Cooler Temp (°C) Obs'd 1.3		Corr'd _____		Therm ID No _____									
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 11/30 16:30		Received by FedEx		Company _____		Date/Time _____							
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____		Date/Time _____							
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by Stephanie Hernandez		Company ETA-GH		Date/Time 12/1/21 1030							

Form No. CA-C-WI-002, Rev. 4.18, dated 9/5/2018

University Park IL 60484-3101
phone 708 534 5200 fax 708 534 5211

Regulatory Program: DW NPDES RCRA Other

TestAmerica Laboratories, Inc.

Client Contact		Project Manager Rich Gnat		Site Contact Mitchel Dolan		Date		COC No								
KPRG and Associates Inc		Tel/Fax (262) 781-0475		Lab Contact Diana Mockler		Carrier FedEx		_____ of _____ COCs								
14665 West Lisbon Road Suite 1A		Analysis Turnaround Time		Filtered Sample (Y/N) Perform MS / MSD (Y/N) 903 0 904 0 Radium 226/228 + Combine 6020A, 7470A 14 Metals & Mercury 6010C - Lithium 4500_F_C - Fluoride SM4500_CLE - Chloride SM4500_SO4_E - Sulfate 2540C - TDS		 500-209044 COC		Sampler								
Brookfield WI 53154		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						For Lab Use Only								
(262) 781-0475 Phone								Walk-in Client								
(262) 781-0478 FAX								Lab Sampling								
Project Name Powerton CCR								Job / SDG No								
Site Powerton Station Pekin IL				500-209044												
P O # 4501908159																
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp G=Grab)	Matrix	# of Cont.	Sample Specific Notes									
4	MW-08	12/1	9:25	G	W	7	N	X	X	X	X	X	X	X	X	
5	MW-18	12/1	10:21	G	W	7		X	X	X	X	X	X	X	X	
6	MW-11	12/1	11:55	G	W	7		X	X	X	X	X	X	X	X	
7	MW-19	12/1	12:58	G	W	7		X	X	X	X	X	X	X	X	
8	Duplicate	12/1	/	G	W	7		X	X	X	X	X	X	X	X	
9	MW-12	12/1	14:18	G	W	7		X	X	X	X	X	X	X	X	
10	MW-9	12/1	15:15	G	W	7		X	X	X	X	X	X	X	X	
Preservation Used. 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____							4	4	4	1	1	1	1			
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Non Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown							<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
Special Instructions/QC Requirements & Comments Lab Project #50011612. CCR Appendix III and Appendix IV Parameters 14 Metals for analysis = Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chloride, Chromium, Cobalt, Lead, Molybdenum, Selenium, Thallium																
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temp (°C) Obs'd _____ Corr'd _____		Therm ID No _____		08,14,21,1,0								
Relinquished by Mitchel Dolan		Company KPRG		Date/Time 12/1 17:30		Received by FedEx		Company _____ Date/Time _____								
Relinquished by _____		Company _____		Date/Time _____		Received by _____		Company _____ Date/Time _____								
Relinquished by _____		Company _____		Date/Time _____		Received in Laboratory by Stephanie Hernandez		Company ETA-CHI Date/Time 12/21 1025								



500-209044 Wayb

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

SHIP DATE: 29NOV21
ACTWGT: 44.20 LB
CAD: 6994779/SSFE2220
DIMS: 24x17x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO **TESTAMERICA CHICAGO**
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

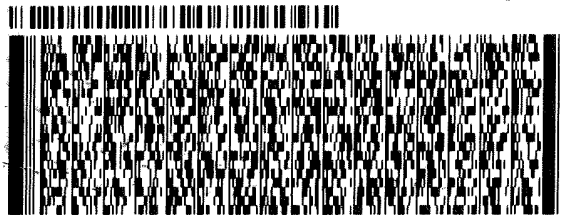
(708) 694-6200

REF:

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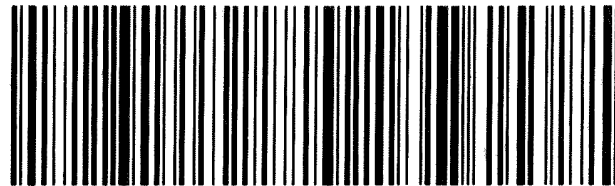


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0201

XN JOTA

60484
IL-US ORD



Part # 156297-436 RRDWZ EXP 04/22

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ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 30NOV21
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BILL THIRD PARTY

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500-209044 Wayt

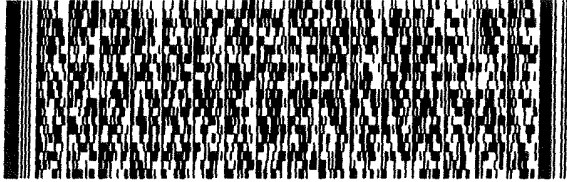
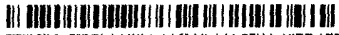
TO **SAMPLE RECEIVING**
EURONFINS
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200
INU:
PO:

REF:

DEPT:



FedEx
Express



1 of 5

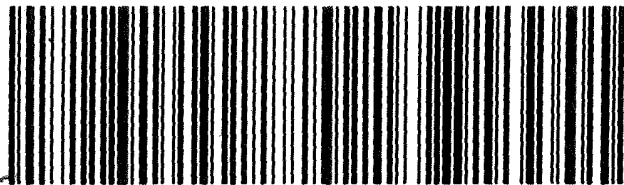
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MASTER

XN JOTA

WED - 01 DEC 11:30A
PRIORITY OVERNIGHT

60484
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W



500-209044 Wayb

ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

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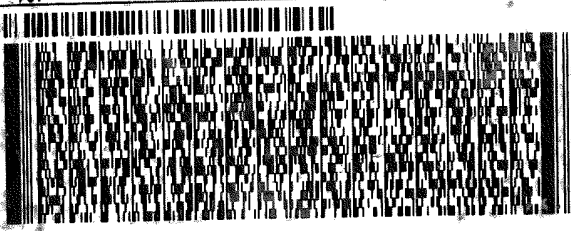
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TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

0.8

UNIVERSITY PARK IL 60484

(555) 555-5555 REF: THU: PO: DEPT:

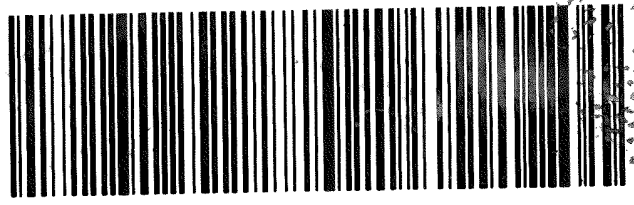


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XN JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
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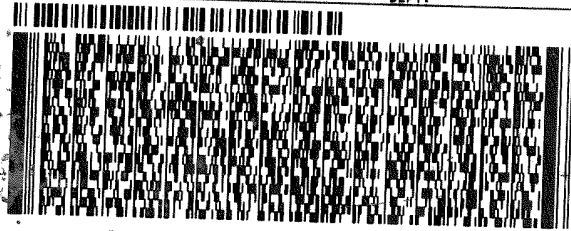
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TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

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UNIVERSITY PARK IL 60484

(555) 555-5555 REF: THU: PO: DEPT:

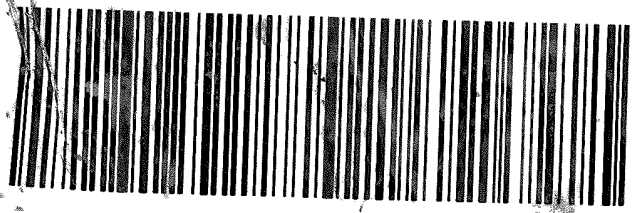


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PRIORITY OVERNIGHT

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XN JOTA

60484
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662

ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
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BILL THIRD PARTY

Part # 156297-4051 (PRIORITY SERVICE 10/22)

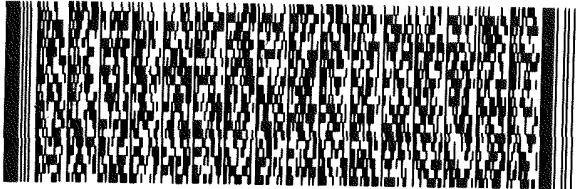
TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(555) 555-5555
INU:
PO:

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DEPT:



FedEx
Express



REL#
3785346

TRK#
0201 2869 2026 1564

THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

XN JOTA

60484
IL-US ORD



ORIGIN ID:PIAA (630) 325-1300
KPRG
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 01DEC21
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BILL THIRD PARTY

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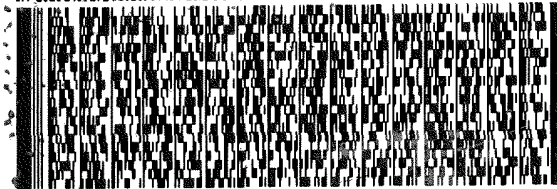
TO TESTAMERICA
TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

(555) 555-5555
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PO:

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DEPT:



FedEx
Express



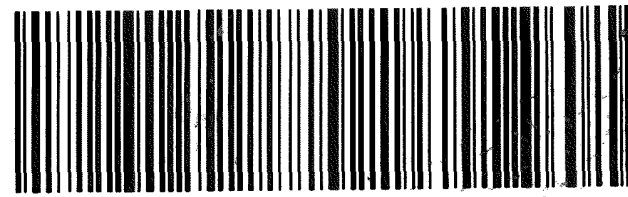
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TRK#
0201 2869 2014 8976

THU - 02 DEC 11:30A
PRIORITY OVERNIGHT

XN JOTA

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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-154953.1									
Shipping/Receiving		E-Mail: Diana.Mockler@Eurofinset.com		Page: Page 1 of 1									
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-209044-2									
Address: 13715 Rider Trail North,		Due Date Requested: 1/1/2022		Preservation Codes:									
City: Earth City		TAT Requested (days):		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)									
State, Zip: MO, 63045		PO #:		Other:									
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:											
Project Name: Powerton CCR		Project #: 50011612											
Site: MWG - Powerton		SSOW#:											
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (H=water, S=solid, O=water/oil)	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	R4226R4228_GFPC	Total Number of Containers	Special Instructions/Note:	
MW-15 (500-209044-1)		11/29/21	15:44 Central	Water	Water	X	X	X	X		2	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS	
MW-17 (500-209044-2)		11/29/21	14:47 Central	Water	Water	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS	
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out 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 TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>													
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>													
Relinquished by: <i>Ami Smith</i>		Date: 11/30/21		Company: <i>ETA</i>		Received by: <i>Nature's Lab</i>		Date/Time: DEC 01 2021 09:50		Company: <i>ETA STL</i>		Date/Time:	
Relinquished by: FED EX		Date/Time:		Company:		Received by: Autumn R. Johnson		Date/Time:		Company:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:									





Chain of Custody Record

Client Information (Sub Contract Lab)

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

Sampler: Mockler, Diana J
 Phone:
 Lab PM: Mockler, Diana J
 E-Mail: Diana.Mockler@Eurofinset.com
 State of Origin: Illinois
 Carner Tracking No(s): 500-155015.1
 Page: Page 1 of 1
 Job #: 500-209044-1
 Accreditations Required (See note): NELAP - Illinois

Sample Identification - Client ID (Lab ID)
 MW-01 (500-209044-3)
 Sample Date: 11/30/21
 Sample Time: 11:15 Central
 Sample Type (C=Comp, G=grab):
 Matrix (W=water, S=solid, O=water/oil, BT=tissue, A=air): Water

Analysis Requested

Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	90.0/PrecSep_21 Standard Target List	90.0/PrecSep_0 Standard Target List	Rad26Ra228_GFPc
X	X	X	X	X

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Z - other (specify)

Special Instructions/Note:
 Full QC needed (dups. etc) Batch QC must be performed (dup. spikes, etc) - no

Total Number of Containers: 3

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

Special Instructions/QC Requirements:

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

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

Relinquished by:	Date/Time:	Company:
Stephanie Hernandez	12/1/21 1430	ETA - CHI
Relinquished by:		Company
Relinquished by:		Company
Relinquished by:		Company

Received by: **FED EX**
 Date/Time: **DEC 02 2021 1000**
 Company: **ETA STL**

Received by: Autumn R. Johnson
 Date/Time: _____
 Company: _____

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

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Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:							
Client Contact:		Mockler, Diana J	Mockler, Diana J		500-155058.1							
Shipping/Receiving		E-Mail:	E-Mail:	State of Origin:	Page							
		Diana.Mockler@Eurofinset.com	Diana.Mockler@Eurofinset.com	Illinois	1 of 1							
Company:		Accreditations Required (See note):		Job #:								
TestAmerica Laboratories, Inc.		NELAP - Illinois		500-209044-2								
Address:		Due Date Requested:	Preservation Codes:									
13715 Rider Trail North,		12/20/2021	A - HCL B - NaOH M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Nitric Acid R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)									
City:		TAT Requested (days):	Analysis Requested									
Earth City												
State, Zip:		PO #:										
MO 63045												
Phone:		WO #:										
314-298-8566(Tel) 314-298-8757(Fax)												
Email:		Project #:										
		50011612										
Project Name:		SOW#:										
Powertron CCR												
Site:		Special Instructions/Note:										
MWG - Powertron												
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Sewer, Onsite, Other)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	904.0/PreSep_0 Standard Target List	93.0/PreSep_21 Standard Target List	R226Ra228 GFPC	Total Number of Containers	Special Instructions/Note:
MW-08 (500-209044-4)	12/1/21	09:25 Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-18 (500-209044-5)	12/1/21	10:21 Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-11 (500-209044-6)	12/1/21	11:55 Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-19 (500-209044-7)	12/1/21	12:58 Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
Duplicate (500-209044-8)	12/1/21	Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-12 (500-209044-9)	12/1/21	14:18 Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
MW-09 (500-209044-10)	12/1/21	15:15 Central	Water	Water	X	X	X	X	X		3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMS
<p>Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.</p>												
Possible Hazard Identification												
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2 Special Instructions/QC Requirements: _____												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Empty Kit Relinquished by:												
Relinquished by: <i>[Signature]</i> Date: 12/21/21 Time: 15:10 Relinquished by: FED EX Company: ETA Relinquished by: FED EX Company: ETA STL												
Custody Seals Intact: _____ Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:												



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209044-2

Login Number: 209044

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

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.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8,1.3,0.8,1.4,2.1,1.0
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.	False	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209044-2

Login Number: 209044

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/01/21 11:53 AM

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209044-2

Login Number: 209044

List Number: 3

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/02/21 12:38 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: 500-209044-2

Login Number: 209044

List Number: 4

Creator: Johnson, Autumn R

List Source: Eurofins TestAmerica, St. Louis

List Creation: 12/03/21 02:11 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

Job ID: 500-209044-2

Client Sample ID: MW-15
Date Collected: 11/29/21 15:44
Date Received: 11/30/21 10:40

Lab Sample ID: 500-209044-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			539820	12/02/21 11:59	LPS	TAL SL
Total/NA	Analysis	903.0		1	543808	12/27/21 12:08	FLC	TAL SL
Total/NA	Prep	PrecSep_0			539821	12/02/21 12:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	542362	12/16/21 09:32	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-17
Date Collected: 11/29/21 14:47
Date Received: 11/30/21 10:40

Lab Sample ID: 500-209044-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			539820	12/02/21 11:59	LPS	TAL SL
Total/NA	Analysis	903.0		1	543808	12/27/21 12:08	FLC	TAL SL
Total/NA	Prep	PrecSep_0			539821	12/02/21 12:15	LPS	TAL SL
Total/NA	Analysis	904.0		1	542362	12/16/21 09:32	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-01
Date Collected: 11/30/21 11:15
Date Received: 12/01/21 10:30

Lab Sample ID: 500-209044-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540012	12/03/21 09:07	LPS	TAL SL
Total/NA	Analysis	903.0		1	543808	12/27/21 12:05	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540013	12/03/21 09:36	LPS	TAL SL
Total/NA	Analysis	904.0		1	541682	12/13/21 09:43	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-08
Date Collected: 12/01/21 09:25
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209044-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543959	12/29/21 07:18	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542370	12/16/21 13:38	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Lab Chronicle

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

Job ID: 500-209044-2

Client Sample ID: MW-18

Lab Sample ID: 500-209044-5

Date Collected: 12/01/21 10:21

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543959	12/29/21 07:18	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542370	12/16/21 13:38	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-11

Lab Sample ID: 500-209044-6

Date Collected: 12/01/21 11:55

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543959	12/29/21 07:18	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542370	12/16/21 13:38	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-19

Lab Sample ID: 500-209044-7

Date Collected: 12/01/21 12:58

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543959	12/29/21 07:18	FLC	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542361	12/16/21 13:41	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: Duplicate

Lab Sample ID: 500-209044-8

Date Collected: 12/01/21 00:00

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543960	12/29/21 07:22	ANW	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542361	12/16/21 13:41	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Lab Chronicle

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

Job ID: 500-209044-2

Client Sample ID: MW-12

Lab Sample ID: 500-209044-9

Date Collected: 12/01/21 14:18

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543960	12/29/21 07:22	ANW	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542361	12/16/21 13:41	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Client Sample ID: MW-09

Lab Sample ID: 500-209044-10

Date Collected: 12/01/21 15:15

Matrix: Water

Date Received: 12/02/21 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			540463	12/06/21 13:34	LPS	TAL SL
Total/NA	Analysis	903.0		1	543960	12/29/21 07:22	ANW	TAL SL
Total/NA	Prep	PrecSep_0			540614	12/06/21 15:12	LPS	TAL SL
Total/NA	Analysis	904.0		1	542361	12/16/21 13:41	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	544141	12/29/21 21:29	MLK	TAL SL

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 500-209044-2

Laboratory: Eurofins TestAmerica, St. Louis

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

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

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Tracer/Carrier Summary

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

Job ID: 500-209044-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y
500-209044-1	MW-15	86.8	
500-209044-1 DU	MW-15	87.1	
500-209044-2	MW-17	85.8	
500-209044-3	MW-01	78.4	
500-209044-4	MW-08	72.1	
500-209044-5	MW-18	87.6	
500-209044-6	MW-11	87.6	
500-209044-7	MW-19	83.6	
500-209044-8	Duplicate	97.5	
500-209044-9	MW-12	94.0	
500-209044-10	MW-09	97.5	
LCS 160-539820/1-A	Lab Control Sample	84.8	
LCS 160-540012/1-A	Lab Control Sample	90.3	
LCS 160-540463/1-A	Lab Control Sample	93.8	
MB 160-539820/9-A	Method Blank	92.8	
MB 160-540012/9-A	Method Blank	91.5	
MB 160-540463/23-A	Method Blank	98.0	

Tracer/Carrier Legend
Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
500-209044-1	MW-15	86.8	79.6
500-209044-1 DU	MW-15	87.1	80.4
500-209044-2	MW-17	85.8	78.1
500-209044-3	MW-01	78.4	77.4
500-209044-4	MW-08	72.1	81.5
500-209044-5	MW-18	87.6	82.2
500-209044-6	MW-11	87.6	80.4
500-209044-7	MW-19	83.6	80.0
500-209044-8	Duplicate	97.5	82.2
500-209044-9	MW-12	94.0	83.0
500-209044-10	MW-09	97.5	83.4
LCS 160-539821/1-A	Lab Control Sample	84.8	66.2
LCS 160-540013/1-A	Lab Control Sample	90.3	77.4
LCS 160-540614/1-A	Lab Control Sample	93.8	80.4
MB 160-539821/9-A	Method Blank	92.8	81.5
MB 160-540013/9-A	Method Blank	91.5	80.4
MB 160-540614/23-A	Method Blank	98.0	87.1

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