K P R G

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

FEDERAL CCR COMPLIANCE
ANNUAL GROUNDWATER MONITORING and CORRECTIVE ACTION REPORT - 2021
FORMER ASH BASIN

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

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January 31, 2022

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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 unit was 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 is operating 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-02 – pH (May only)
    - MW-03 – fluoride (November only)
    - MW-04 – fluoride (May and August)
    - MW-05 – chloride (August and November), fluoride, sulfate, and TDS (November only)
    - MW-10 (upgradient) – boron (May only)

    These constituent SSIs have been previously addressed under an Alternate Source Demonstration (ASD) and based on that evaluation, the groundwater monitoring program was transitioned to assessment monitoring under Section 257.95 in February 2020.

- Section 257.90(e)(6)(iv) – There were no confirmed statistically significant levels (SSLs) above established groundwater protection standards (GWPSs) for the Appendix IV assessment monitoring constituents for this unit during the subject monitoring period.

- Section 257.90(e)(6)(v) – The subject unit is not under corrective action.

- Section 257.90(e)(6)(vi) – The subject unit is 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 Former Ash Basin (FAB) monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Powerton Generating Station. 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 Bypass Basin (ABB) and Ash Surge Basin (ASB). Well MW-01 is also part of the FAB CCR monitoring program also in addition to being part of the CCR monitoring program for the ABB and ASB. Well MW-01 and MW-10 are upgradient wells and wells MW-02 through MW-05 are downgradient wells.

This annual report covers the work performed relative to CCR groundwater monitoring for the FAB during the calendar year 2021. 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 to date and summarizes conclusions and recommendations for the station going forward. The annual report for the ABB and ASB is provided under separate cover.

2.0 FIELD PROCEDURES AND GROUNDWATER FLOW EVALUATION

2.1 Field Procedures

As previously noted, the CCR groundwater monitoring network around the FAB consists of monitoring wells MW-01 (upgradient), MW-02 through MW-05 (downgradient), and MW-10 (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.

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. The duplicate samples from the May and December 2021 sampling events were from monitoring well MW-10 and the duplicate sample from the August 2021 sampling event was from monitoring well MW-03.

2.2 Groundwater Flow Evaluation

Water level data measurements were obtained from each well during each round of groundwater monitoring. A complete round of water levels was collected prior to initiating sampling, and the water level data are summarized in Table 1. Unlike the CCR monitoring network for the ABB/ASB which includes monitoring wells within both a shallow localized clay/silty clay unit and a deeper more extensive sand unit, all wells associated with the FAB monitoring are screened within the extensive sand unit which underlies the area (i.e., the localized shallow clay/silty clay unit does not extend beneath the FAB). Groundwater flow maps from the sampling performed in 2021 relative to the FAB are provided on Figures 2 through 4.

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:

$$V_s = \frac{K\,dh}{n_e\,dl}$$, 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)

Through 2020 the average hydraulic conductivity of 3.81 x 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 Former Ash Basin. The Patrick Engineering slug test data were re-evaluated as part of the modeling exercise and a modified hydraulic geometric mean of 1.39 x 10^{-3} ft/sec was estimated and subsequently used in Table 2 for 2021 estimates. The estimated effective porosity 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 minimum semi-annual basis.

3.2 Data Summary

The analytical data from the FAB assessment monitoring groundwater sampling for Appendix III and IV parameters is provided in Tables 4 and 5, respectively. Table 4 includes Prediction Limits (PLs) for Appendix III parameters that were established as part of the initial CCR Groundwater Monitoring Statistical Evaluation Summary dated December 2019. Table 5 includes GWPSs for detected Appendix IV constituents that were calculated as part of a report titled Statistical Evaluation Summary CCR Groundwater Assessment Monitoring – Former Ash Basin Powerton Generating Station dated June 22, 2020 (for summaries of Appendix III and IV statistical evaluations, see 2019 and 2020 CCR Compliance Reports, respectively). Both tables include the sample dates and whether the specific well is considered upgradient or downgradient relative to groundwater flow and the regulated unit. All duplicate values were within an acceptable range. There were no confirmed SSLs above established site-specific groundwater protection standards (GWPSs) for the Appendix IV assessment monitoring constituents for this unit during the subject monitoring period. The analytical data packages from these sampling events are provided in Appendix A.

3.3 Current Status

The FAB was transitioned from detection monitoring to assessment monitoring in February 2020 and currently remains in assessment monitoring.

4.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS

The assessment monitoring requirements in accordance with the CCR rule are being successfully met. There have been no recorded detections above established GWPSs for any parameter at any well. At this time, it is recommended that the station remain in 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 Monitoring, Sampling and Analysis Plan, Midwest Generation, LLC Powerton Generating Station. October 10, 2017.

- KPRG and Associates, Inc., CCR Compliance Statistical Approach for Groundwater Data Evaluation, Midwest Generation, LLC Powerton Generating Station. October 10, 2017.

- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report – 2019. January 31, 2020.

- KPRG and Associates, Inc., Alternate Source Demonstration CCR Groundwater Monitoring – Former Ash Basin Powerton Generating Station. March 9, 2020.

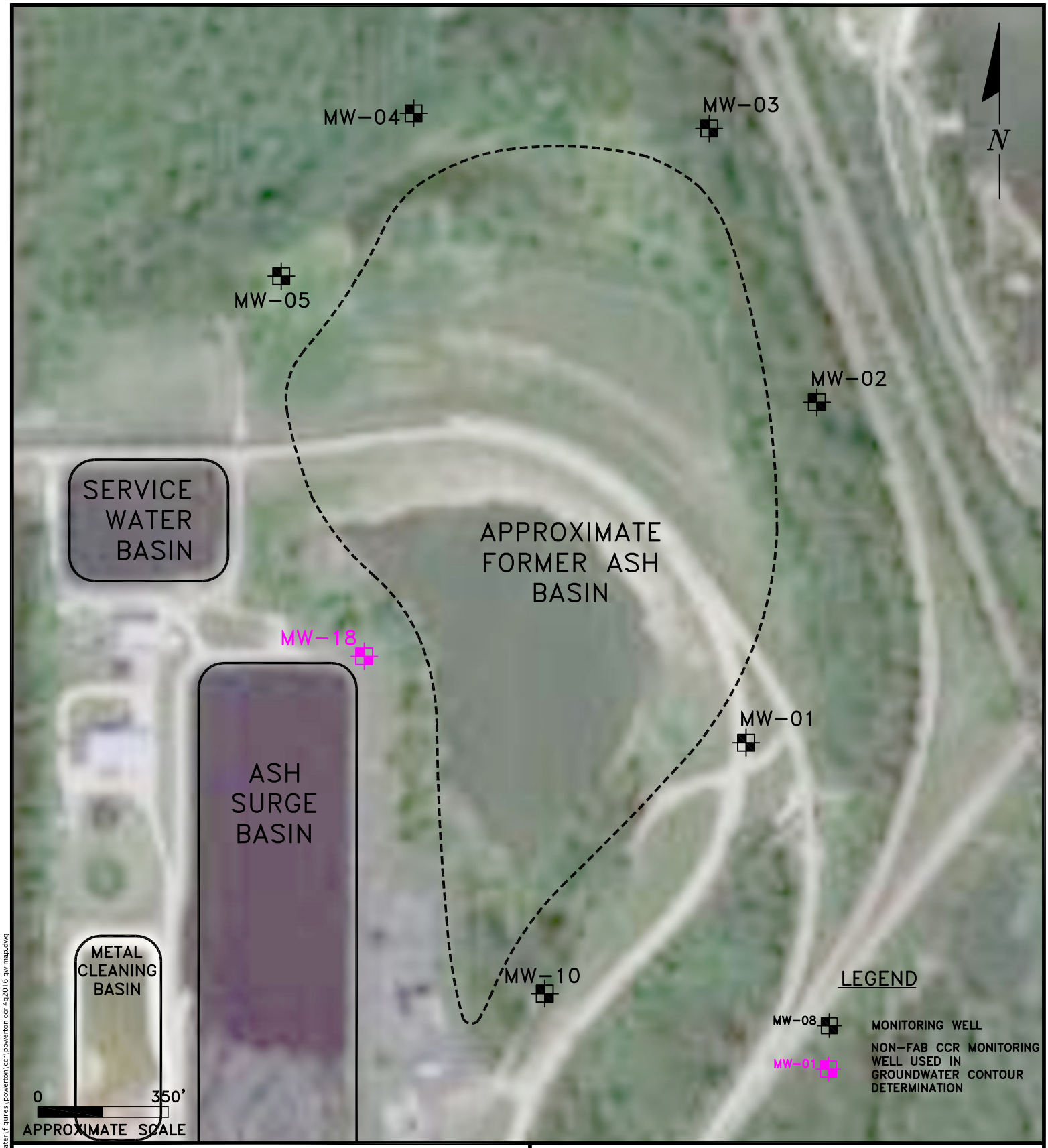
- KPRG and Associates, Inc., CCR Compliance Statistical Evaluation Summary Groundwater Assessment Monitoring Former Ash Basin Powerton Generating Station. June 22, 2020.

- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report – 2020. January 31, 2021.

- 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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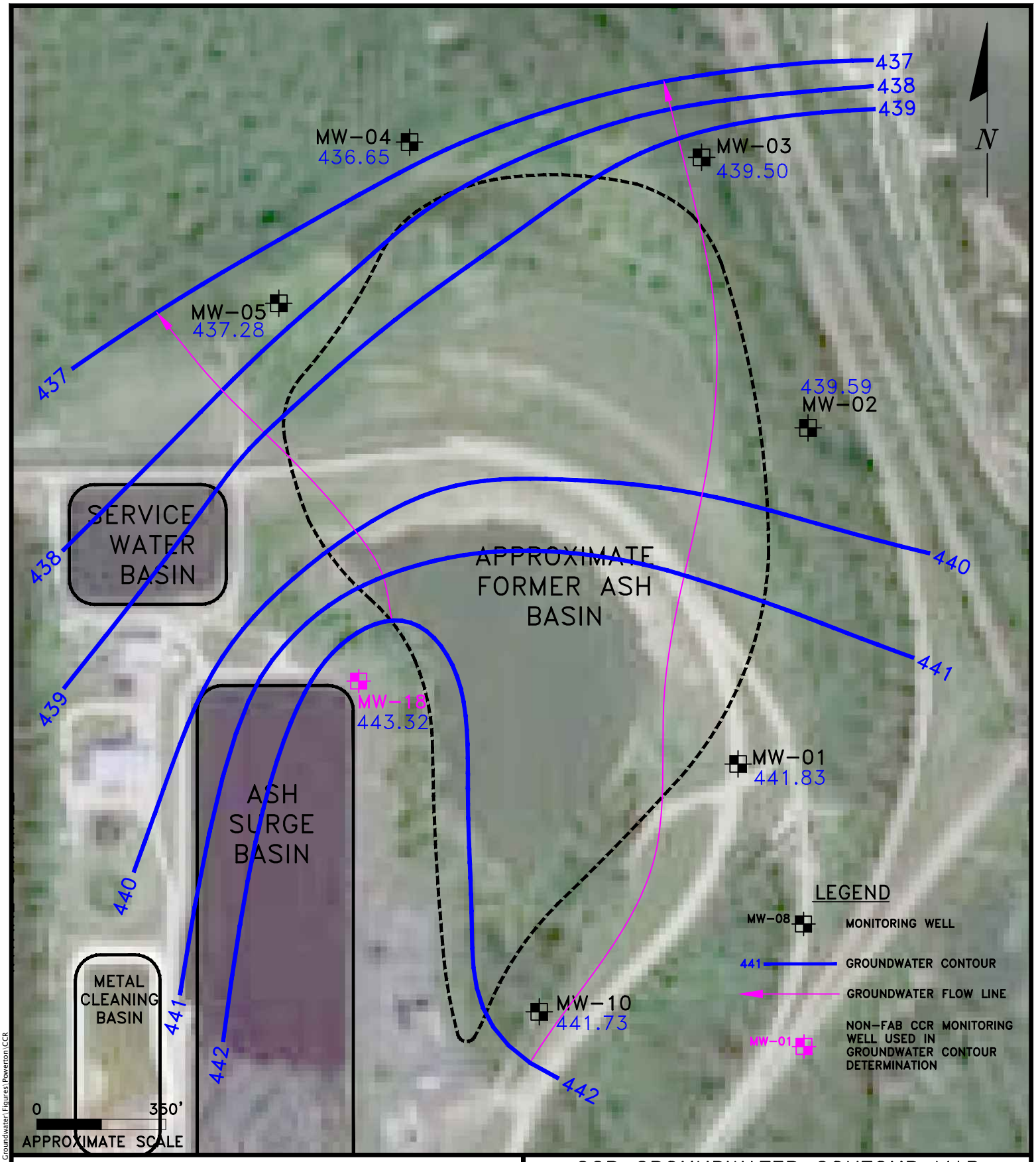
FORMER ASH BASIN CCR MONITORING WELL SITE MAP

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350' | Date: January 07, 2019

KPRG Project No. 12313.1 | FIGURE 1



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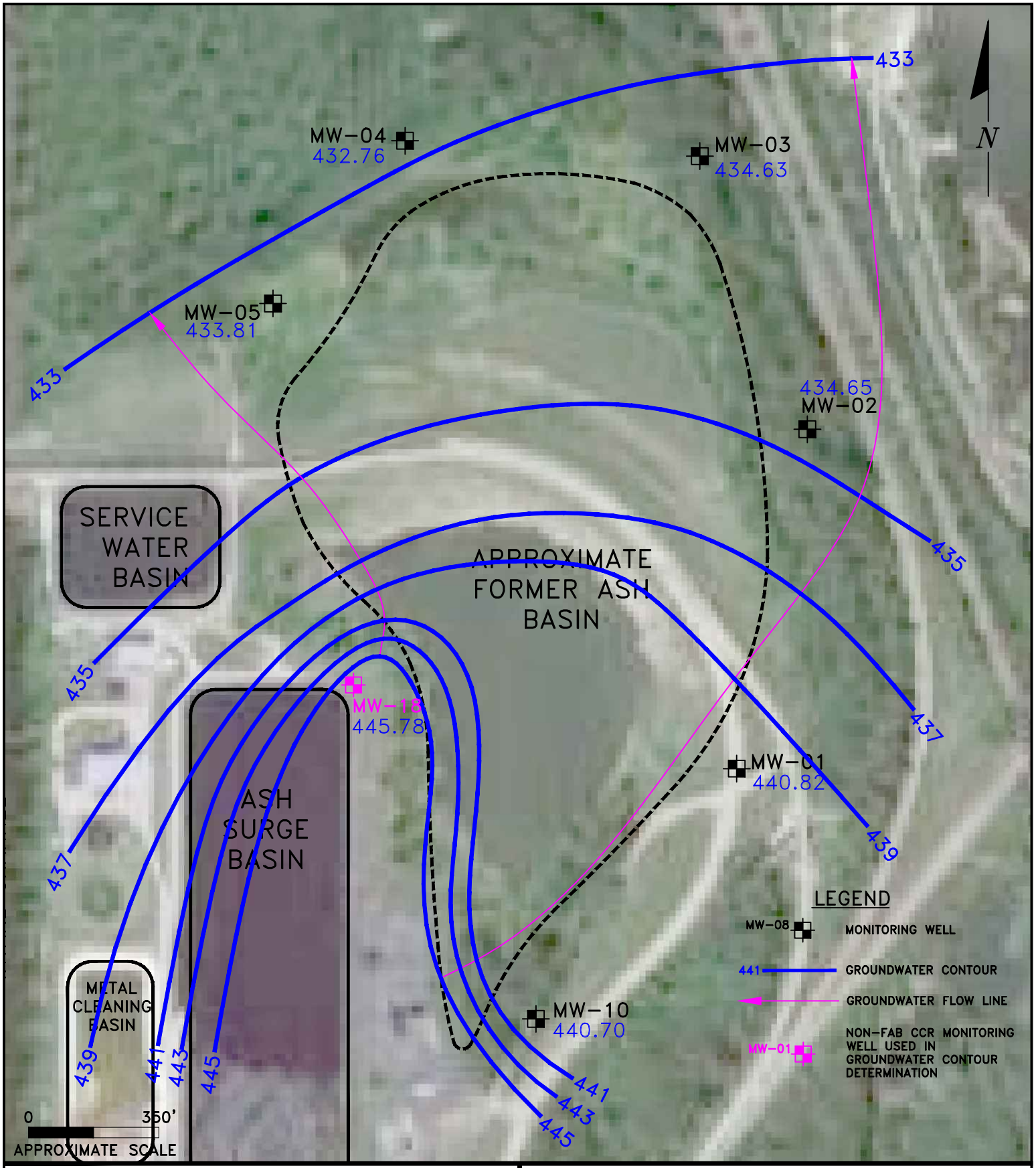
CCR GROUNDWATER CONTOUR MAP FOR FORMER ASH BASIN 05/2021

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350' | Date: July 15, 2021

KPRG Project No. 12313.1 | FIGURE 2



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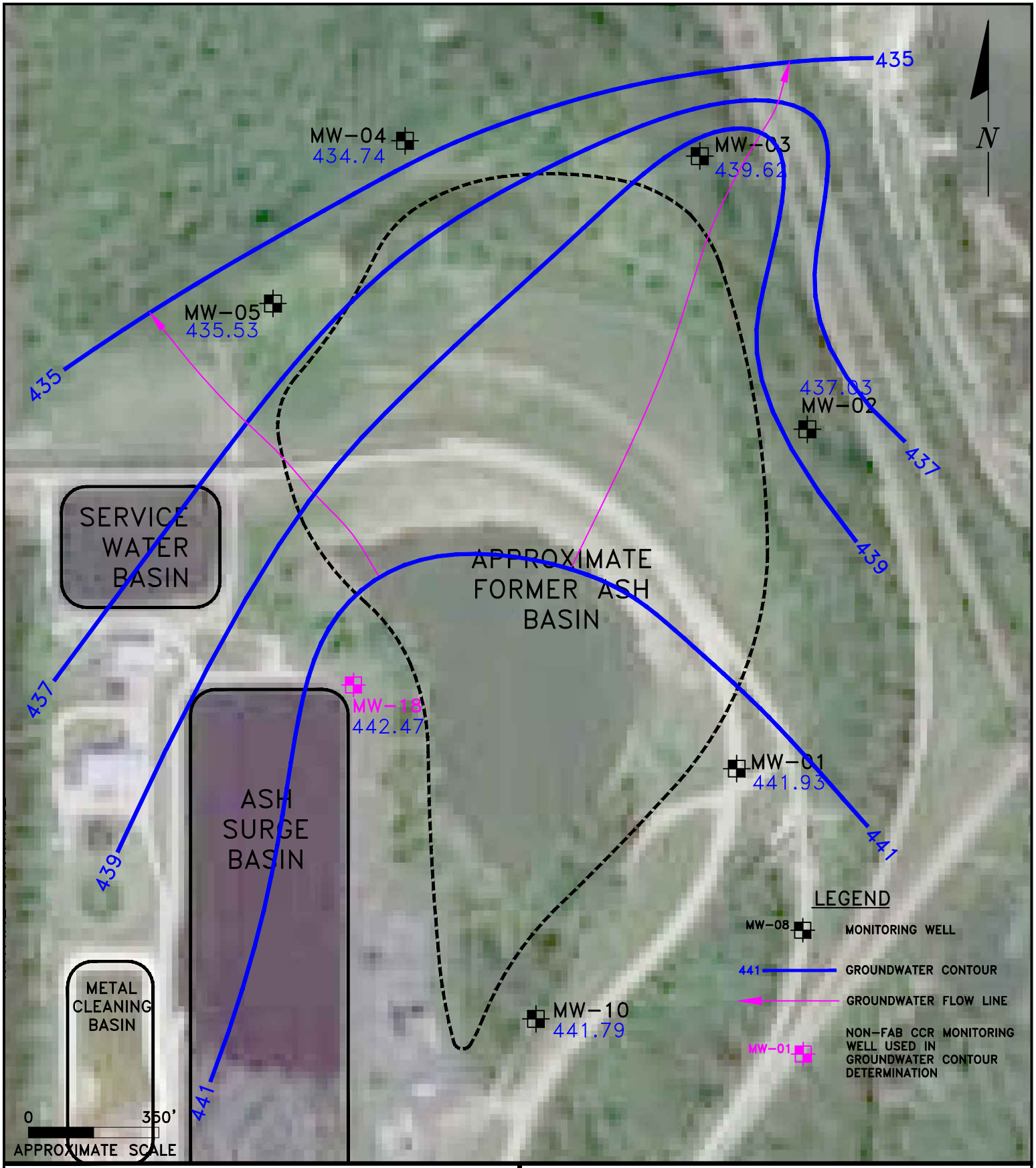
CCR GROUNDWATER CONTOUR MAP FOR FORMER ASH BASIN 08/2021

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350' | Date: January 06, 2022

KPRG Project No. 12313.1 | FIGURE 3



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CCR GROUNDWATER CONTOUR MAP FOR FORMER ASH BASIN 11/2021

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 350' | Date: January 06, 2022

KPRG Project No. 12313.1 | FIGURE 4

TABLES

Table 1. Groundwater Elevations for FAB Wells- 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
	2/25/2019	465.24	19.44	445.80
	4/29/2019	465.24	20.15	445.09
	8/26/2019	465.24	23.85	441.39
	2/24/2020	465.24	20.71	444.53
	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-02	6/20/2017	462.60	22.04	440.56
	8/23/2017	462.60	28.42	434.18
	11/7/2017	462.60	26.08	436.52
	5/17/2018	462.60	23.26	439.34
	8/7/2018	462.60	29.70	432.90
	10/30/2018	462.60	26.77	435.83
	2/25/2019	462.60	17.02	445.58
	4/29/2019	462.60	19.26	443.34
	8/26/2019	462.60	27.45	435.15
	2/24/2020	462.60	20.35	442.25
	4/27/2020	462.60	20.51	442.09
	12/7/2020	462.60	28.71	433.89
	2/22/2021	462.60	25.90	436.70
	4/7/2021	462.60	21.95	440.65
	5/10/2021	462.60	23.01	439.59
	6/2/2021	462.60	21.74	440.86
	6/28/2021	462.60	22.24	440.36
	7/19/2021	462.60	18.66	443.94
	8/23/2021	462.60	27.95	434.65
	9/30/2021	462.60	30.44	432.16
	10/27/2021	462.60	22.74	439.86
	11/29/2021	462.60	25.57	437.03
	12/30/2021	462.60	25.11	437.49

Table 1. Groundwater Elevations for FAB Wells- 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-03	6/20/2017	462.48	22.31	440.17
	8/23/2017	462.48	28.18	434.30
	11/7/2017	462.48	25.38	437.10
	5/17/2018	462.48	22.62	439.86
	8/7/2018	462.48	29.17	433.31
	10/30/2018	462.48	24.71	437.77
	2/25/2019	462.48	17.20	445.28
	4/29/2019	462.48	18.85	443.63
	8/26/2019	462.48	27.65	434.83
	2/24/2020	462.48	20.18	442.30
	4/27/2020	462.48	20.43	442.05
	12/7/2020	462.48	28.61	433.87
	2/22/2021	462.48	23.48	439.00
	4/7/2021	462.48	21.73	440.75
	5/10/2021	462.48	22.98	439.50
	6/2/2021	462.48	21.53	440.95
	6/28/2021	462.48	21.98	440.50
	7/19/2021	462.48	18.35	444.13
	8/23/2021	462.48	27.85	434.63
	9/30/2021	462.48	30.32	432.16
	10/27/2021	462.48	22.34	440.14
	11/29/2021	462.48	22.86	439.62
	12/30/2021	462.48	23.14	439.34
MW-04	6/20/2017	460.57	22.15	438.42
	8/28/2017	460.57	28.49	432.08
	11/7/2017	460.57	25.62	434.95
	5/17/2018	460.57	24.13	436.44
	8/7/2018	460.57	29.23	431.34
	10/30/2018	460.57	26.58	433.99
	2/25/2019	460.57	15.45	445.12
	4/29/2019	460.57	15.88	444.69
	8/26/2019	460.57	27.35	433.22
	2/24/2020	460.57	19.81	440.76
	4/27/2020	460.57	19.76	440.81
	12/7/2020	460.57	28.50	432.07
	2/22/2021	460.57	26.44	434.13
	4/7/2021	460.57	21.90	438.67
	5/10/2021	460.57	23.92	436.65
	6/2/2021	460.57	21.41	439.16
	6/28/2021	460.57	22.40	438.17
	7/19/2021	460.57	17.22	443.35
	8/23/2021	460.57	27.81	432.76
	9/30/2021	460.57	30.01	430.56
	10/27/2021	460.57	22.29	438.28
	11/29/2021	460.57	25.83	434.74
	12/30/2021	460.57	25.79	434.78

Table 1. Groundwater Elevations for FAB Wells- 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-05	11/16/2015	458.58	26.39	432.19
	2/22/2016	458.66	21.12	437.54
	5/16/2016	458.66	16.58	442.08
	8/15/2016	458.66	23.59	435.07
	11/14/2016	458.66	22.72	435.94
	2/13/2017	458.66	19.13	439.53
	5/1/2017	458.66	13.09	445.57
	6/20/2017	458.66	19.43	439.15
	8/28/2017	458.66	25.38	433.20
	11/7/2017	458.66	22.91	435.67
	5/17/2018	458.66	21.54	437.04
	8/7/2018	458.66	26.17	432.41
	10/30/2018	458.66	23.97	434.61
	2/25/2019	458.66	13.21	445.45
	4/29/2019	458.66	15.40	443.26
	8/26/2019	458.66	24.35	434.31
	2/24/2020	458.66	17.25	441.41
	4/27/2020	458.66	17.41	441.25
	12/7/2020	458.66	25.65	433.01
	2/22/2021	458.66	23.82	434.84
	4/7/2021	458.66	19.40	439.26
	5/10/2021	458.66	21.38	437.28
	6/2/2021	458.66	18.99	439.67
	6/28/2021	458.66	22.20	436.46
	7/19/2021	458.66	14.98	443.68
	8/23/2021	458.66	24.85	433.81
	9/30/2021	458.66	26.98	431.68
	10/27/2021	458.66	20.00	438.66
	11/29/2021	458.66	23.13	435.53
	12/30/2021	458.66	23.20	435.46
MW-10	6/22/2017	457.31	13.46	443.85
	8/24/2017	457.31	16.39	440.92
	11/9/2017	457.31	16.86	440.45
	5/16/2018	457.31	14.88	442.43
	8/8/2018	457.31	17.88	439.43
	10/30/2018	457.31	17.04	440.27
	2/25/2019	457.31	11.28	446.03
	4/29/2019	457.31	11.88	445.43
	8/26/2019	457.31	15.89	441.42
	2/24/2020	457.31	12.64	444.67
	4/27/2020	457.31	12.75	444.56
	12/7/2020	457.31	17.80	439.51
	2/22/2021	457.31	17.25	440.06
	4/7/2021	457.31	14.21	443.10
	5/10/2021	457.31	15.58	441.73
	6/2/2021	457.31	13.98	443.33
	6/28/2021	457.31	15.28	442.03
	7/19/2021	457.31	12.30	445.01
	8/23/2021	457.31	16.61	440.70
	9/30/2021	457.31	18.67	438.64
	10/25/2021	457.31	16.23	441.08
	11/29/2021	457.31	15.52	441.79
	12/30/2021	457.31	16.50	440.81

MSL - Mean Sea Level
TOC - Top of Casing

Table 2. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Powerton Generation Station - Former Ash Basin

DATE	Screened Unit	Groundwater Flow Direction	K_{avg} (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
6/20/2017	Sandy	Northeasterly	3.810E-03	0.0032	0.35	3.01
8/25/2017	Sandy	North-Northwest	3.810E-03	0.0127	0.35	11.94
11/8/2017	Sandy	North-Northwest	3.810E-03	0.0066	0.35	6.21
5/17/2018	Sandy	Northerly (Northwest - Northeast)	3.810E-03	0.0037	0.35	3.48
8/7/2018	Sandy	North-Northwest	3.810E-03	0.0059	0.35	5.55
10/30/2018	Sandy	North-Northwest	3.810E-03	0.0063	0.35	5.93
2/25/2019	Sandy	North	3.810E-03	0.0007	0.35	0.66
4/29/2019	Sandy	Northerly (Northwest - Northeast)	3.810E-03	0.0027	0.35	2.54
8/26/2019	Sandy	Northerly (Northwest - Northeast)	3.810E-03	0.0056	0.35	5.27
2/24/2020	Sandy	Northerly (Northwest - Northeast)	3.810E-03	0.0015	0.35	1.41
4/27/2020	Sandy	Northerly (Northwest - Northeast)	3.810E-03	0.0036	0.35	3.39
12/7/2020	Sandy	Northerly (Northwest - Northeast)	3.810E-03	0.0052	0.35	4.89
5/10/2021	Sandy	Northerly (Northwest - Northeast)	1.390E-03	0.0036	0.35	1.24
8/23/2021	Sandy	Northerly (Northwest - Northeast)	1.390E-03	0.0117	0.35	4.01
11/29/2021	Sandy	Northerly (Northwest - Northeast)	1.390E-03	0.0033	0.35	1.13

* K_{avg} - 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.

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

Table 3. CCR Groundwater Sample Collection Summary for 2021 - Powerton Generating Station Former Ash 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-10 (Upgradient)	3	5/11/2021	A
		8/24/2021	A
		11/30/2021	A
MW-02 (Downgradient)	3	5/11/2021	A
		8/24/2021	A
		11/30/2021	A
MW-03 (Downgradient)	3	5/11/2021	A
		8/24/2021	A
		11/30/2021	A
MW-04 (Downgradient)	3	5/11/2021	A
		8/24/2021	A
		11/30/2021	A
MW-05 (Downgradient)	3	5/11/2021	A
		8/24/2021	A
		11/30/2021	A

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-01 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
	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	6.70	48	540
	8/8/2018	0.14	86	48	0.13	6.80	43	430
	4/30/2019	0.07	78	54	0.17	7.20	27	450
	Pred. Limit*	**0.968**	**130.7**	**66.4**	**0.246**	**7.75-6.52**	**89**	**634.4**
	8/26/2019	0.57	100	39	0.13	7.15	71	550
	2/24/2020	0.28	87	53	0.21	7.19	34	410
	4/28/2020	0.33	110	46	0.19	7.17	41	470
	12/7/2020	0.59	100	54	**0.25**	7.22	55	**640**
	5/11/2021	0.21	85	51	0.21	7.52	37	450
	8/24/2021	0.27	99	40	0.18	7.19	56	430
	11/30/2021	0.35	84	41	0.19	7.14	^- 28	410
MW-10 up-gradient	6/22/2017	0.46	100	48	0.19	6.81	54	1.0
	8/24/2017	0.32	93	51	0.18	7.14	57	480
	11/9/2017	0.36	98	48	0.18	6.78	64	500
	5/16/2018	0.42	93	44	0.19	7.64	80	530
	8/8/2018	0.39	99	58	0.19	7.10	60	550
	10/30/2018	0.34	110	49	0.22	7.65	49	510
	2/26/2019	0.39	150	48	0.21	6.77	36	540
	5/1/2019	0.35	92	50	0.22	6.81	30	470
	Pred. Limit*	**0.499**	**150**	**60**	**0.241**	**7.65-6.77**	**95**	**598**
	8/26/2019	0.30	84	48	0.19	7.09	30	410
	2/25/2020	**1.40**	110	45	0.23	6.82	59	500
	4/28/2020	**1.00**	110	41	0.24	6.80	64	550
	12/8/2020	**2.40**	120	44	**0.26**	7.11	71	550
	5/11/2021	**0.64**	100	52	0.24	7.01	59	540
	8/24/2021	0.42	98	53	0.21	6.87	46	420
	11/30/2021	0.42	100	47	0.19	6.99	^- 36	530
MW-02 down-gradient	6/20/2017	0.33	90	55	0.19	7.01	47	500
	8/23/2017	V 1.30	86	49	0.19	7.40	61	440
	11/7/2017	3.70	98	46	0.17	7.10	88	550
	5/15/2018	0.22	80	45	0.23	7.71	54	500
	8/7/2018	1.50	89	54	0.15	7.09	51	530
	10/30/2018	0.23	86	43	0.17	7.83	34	480
	2/26/2019	0.07	69	49	0.16	7.82	23	400
	4/30/2019	0.12	79	48	0.16	7.60	30	440
	Pred. Limit	**0.77**	**132**	**62**	**0.25**	**7.69-6.54**	**85**	**609**
	8/26/2019	0.51	86	50	0.18	7.13	32	400
	2/24/2020	0.33	89	53	0.20	7.43	37	410
	4/28/2020	0.33	90	50	0.20	7.32	41	430
	12/9/2020	0.66	100	41	0.15	**7.78**	64	430
	5/11/2021	0.23	79	51	0.21	**7.70**	37	370
	8/24/2021	0.63	94	47	0.17	7.31	56	340
	11/30/2021	0.22	87	41	0.14	7.39	^- 36	380

Notes: All units are in mg/l except pH is in standard units.
Bold - Potential statistically significant increase.
V- Serial dilution exceeds control limits.
*- Intrawell Prediction Limit. All others are interwell comparisons.
H- Sample was prepped or analyzed beyond specified holding time

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

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-03 down-gradient	6/20/2017	0.4	76	54	0.29	7.26	49	480
	8/23/2017	0.40	79	52	0.28	7.44	52	430
	11/7/2017	0.31	79	62	0.26	7.04	61	460
	5/15/2018	0.35	87	66	0.27	7.53	77	520
	8/7/2018	0.40	82	67	0.22	6.60	49	500
	10/30/2018	0.20	74	44	0.25	7.84	26	400
	2/26/2019	0.06	74	56	0.24	7.49	25	410
	4/30/2019	0.28	74	49	0.22	7.17	38	390
	Pred. Limit	**0.77**	**132**	**62**	**0.25**	**7.69-6.54**	**85**	**609**
	8/26/2019	0.31	75	50	**0.26**	7.17	14	380
	2/24/2020	0.33	87	53	0.22	7.10	65	470
	4/28/2020	0.24	86	46	0.22	7.03	79	410
	12/9/2020	**0.86**	92	45	**0.28**	7.46	60	390
	5/11/2021	0.22	75	49	0.21	7.33	38	390
	8/24/2021	0.41	81	46	0.25	7.15	32	310
	11/30/2021	0.3	76	47	**0.26**	7.20	^- 23	350
MW-04 down-gradient	6/20/2017	0.5	77	55	0.29	7.45	53	480
	8/28/2017	V 0.73	90	89	0.33	7.13	110	680
	11/7/2017	0.60	110	94	0.24	6.80	130	650
	5/15/2018	0.68	87	66	0.27	7.63	100	630
	8/7/2018	0.79	84	71	0.32	6.72	49	510
	10/30/2018	0.54	100	80	0.24	7.55	91	690
	2/26/2019	0.38	79	55	0.25	7.18	52	490
	4/30/2019	0.36	74	48	0.25	7.08	35	380
	Pred. Limit	**0.77**	**132**	**62**	**0.25**	**7.69-6.54**	**85**	**609**
	8/26/2019	0.64	91	60	0.24	7.08	14	490
	2/24/2020	0.34	81	49	0.20	7.05	67	440
	4/28/2020	0.55	76	52	**0.27**	7.03	47	380
	12/9/2020	0.57	92	88	**0.32**	7.10	94	580
	5/11/2021	0.61	77	44	**0.33**	7.22	76	410
	8/24/2021	0.72	78	48	**0.34**	7.12	15	100
	11/30/2021	0.51	99	56	0.25	6.95	^- 62	560
MW-05 down-gradient	5/17/2016	0.70	100	85	0.35	7.08	120	660
	8/16/2016	0.69	110	97	0.30	6.85	150	830
	11/15/2016	0.93	94	66	0.23	6.96	77	620
	2/14/2017	0.79	100	100	0.25	7.25	170	760
	5/1/2017	0.70	100	92	0.28	7.60	170	710
	6/20/2017	0.64	89	63	0.28	7.32	78	550
	8/28/2017	0.62	110	120	0.33	7.05	210	870
	11/7/2017	0.51	99	110	0.31	6.87	160	990
	5/15/2018	0.61	130	89	0.29	7.70	210	910
	8/7/2018	0.49	110	120	0.32	6.56	180	890
	4/30/2019	0.56	84	73	0.36	6.96	120	590
	Pred. Limit	**0.77**	**132**	**62**	**0.25**	**7.69-6.54**	**85**	**609**
	8/26/2019	0.57	110	**75**	**0.29**	7.01	**110**	**660**
	2/24/2020	0.54	110	**70**	**0.36**	6.90	**120**	H **700**
	4/28/2020	0.49	110	56	**0.37**	6.87	**130**	**620**
	12/9/2020	0.53	98	**78**	**0.31**	6.91	**110**	**670**
	5/11/2021	0.50	83	52	**0.38**	7.20	**100**	530
	8/24/2021	0.55	88	**69**	**0.32**	6.84	**99**	500
	11/30/2021	0.68	99	**67**	**0.3**	6.92	^- **92**	**620**

Notes: All units are in mg/l except pH is in standard units.

Bold - Potential statistically significant increase.

V- Serial dilution exceeds control limits.

*- Intrawell Prediction Limit. All others are interwell comparisons.

H- Sample was prepped or analyzed beyond specified holding time

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

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-01 up-gradient	11/16/2015	< 0.003	< 0.001	0.057	^< 0.001	< 0.0005	< 0.005	< 0.001	0.17	*< 0.0005	< 0.01	< 0.0002	< 0.0050	0.744	< 0.0025	*< 0.002
	2/25/2016	< 0.003	0.0025	0.053	< 0.001	< 0.0005	< 0.005	0.0014	0.16	0.0019	< 0.01	< 0.0002	< 0.005	< 0.722	0.0029	< 0.002
	5/20/2016	< 0.003	0.0081	0.062	< 0.001	< 0.0005	0.007	0.0053	0.17	0.011	< 0.01	< 0.0002	< 0.005	< 0.953	< 0.0025	< 0.002
	8/17/2016	< 0.003	0.0014	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	0.0014	< 0.01	< 0.0002	0.0057	< 0.491	< 0.0025	< 0.002
	11/16/2016	< 0.003	0.0051	0.056	< 0.001	< 0.0005	< 0.005	0.0044	0.21	0.0082	< 0.01	< 0.0002	0.0059	< 0.618	< 0.0025	< 0.002
	2/14/2017	< 0.003	0.0041	0.056	< 0.001	< 0.0005	< 0.005	0.0045	0.17	0.0076	< 0.01	< 0.0002	0.0056	< 0.837	< 0.0025	< 0.002
	5/3/2017	< 0.003	0.0015	0.045	< 0.001	< 0.0005	< 0.005	0.0033	0.16	0.0067	< 0.01	< 0.0002	< 0.005	0.574	< 0.0025	< 0.002
	6/21/2017	< 0.003	< 0.001	0.040	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.418	< 0.0025	< 0.002
	8/25/2017	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	0.0059	0.775	< 0.0025	< 0.002
	11/8/2017	< 0.003	< 0.001	0.083	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	< 0.0005	< 0.01	< 0.0002	< 0.005	0.343	< 0.0025	< 0.002
	5/17/2018	< 0.003	< 0.001	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	0.00068	< 0.01	< 0.0002	< 0.005	< 0.396	< 0.0025	< 0.002
	8/8/2018	< 0.003	< 0.001	0.051	<^ 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.01	< 0.0002	< 0.005	0.579	< 0.0025	< 0.002
	4/30/2019	< 0.003	0.0014	0.039	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	0.0017	< 0.01	< 0.0002	< 0.005	< 0.656	< 0.0025	< 0.002
	GWPS	**NS**	**0.022**	**2.0**	**NS**	**NS**	**0.063**	**0.119**	**4.0**	**0.036**	**NS**	**NS**	**0.1**	**5.0**	**0.05**	**NS**
	8/26/2019	< 0.003	< 0.001	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	< 0.01	< 0.0002	< 0.005	0.802	< 0.0025	< 0.002
	2/24/2020	< 0.003	< 0.001	0.044	< ^ 0.001	< 0.0005	< 0.005	< 0.001	0.21	0.00057	< 0.01	< 0.0002	< 0.005	< 0.478	< 0.0025	< 0.002
	4/28/2020	NA	< 0.001	0.051	NA	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	< 0.01	< 0.0002	< 0.005	0.628	< 0.0025	< 0.002
	12/7/2020	NA	< 0.001	0.058	NA	< 0.0005	< 0.005	< 0.001	0.25	< 0.0005	< 0.01	< 0.0002	0.0052	< 0.542	< 0.0025	< 0.002
	5/11/2021	< 0.003	< 0.001	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	< 0.01	< 0.0002	0.01	0.521	< 0.0025	< 0.002
	8/24/2021	< 0.003	< 0.001	0.061	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	0.00088	< 0.01	< 0.0002	0.007	< 0.463	< 0.0025	< 0.002
	11/30/2021	< 0.003	< 0.001	0.06	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	0.005	< 0.0002	0.0072	DNYA	0.0026	< 0.002
MW-10 up-gradient	6/22/2017	< 0.003	0.0023	0.250	< 0.001	< 0.0005	< 0.005	0.008	0.19	0.003	< 0.01	< 0.0002	< 0.005	0.408	0.0042	< 0.002
	8/24/2017	< 0.003	0.0020	0.220	< 0.001	< 0.0005	< 0.005	0.007	0.18	0.003	< 0.01	< 0.0002	< 0.005	0.564	0.0044	< 0.002
	11/9/2017	< 0.003	< 0.0010	0.220	< 0.001	< 0.0005	< 0.005	0.004	0.18	< 0.001	< 0.01	< 0.0002	< 0.005	1.020	0.0034	< 0.002
	5/16/2018	< 0.003	0.0010	0.220	< 0.001	< 0.0005	< 0.005	0.021	0.19	0.001	< 0.01	< 0.0002	< 0.005	1.550	0.0050	< 0.002
	8/8/2018	< 0.003	0.0012	0.220	<^ 0.001	< 0.0005	< 0.005	0.014	0.19	0.001	< 0.01	< 0.0002	< 0.005	< 0.551	0.0062	< 0.002
	10/30/2018	< 0.003	0.0110	0.410	< 0.001	0.0008	0.024	0.047	0.22	0.023	0.02	< 0.0002	< 0.005	3.00	0.0046	< 0.002
	2/26/2019	< 0.003	0.0220	0.590	< 0.005	0.0015	0.063	0.081	0.21	0.036	0.03	< 0.0002	0.007	4.130	0.0041	< 0.002
	5/1/2019	< 0.003	0.0023	0.270	< 0.001	< 0.0005	< 0.005	0.011	0.22	0.0028	< 0.01	< 0.0002	< 0.005	1.330	0.0037	< 0.002
	GWPS	**NS**	**0.022**	**2.0**	**NS**	**NS**	**0.063**	**0.119**	**4.0**	**0.036**	**NS**	**NS**	**0.1**	**5.0**	**0.05**	**NS**
	8/26/2019	< 0.003	0.0017	0.190	< 0.001	< 0.001	< 0.005	0.007	0.19	0.0016	< 0.01	< 0.0002	< 0.005	1.540	0.0050	< 0.002
	2/25/2020	< 0.003	0.0033	0.280	< ^ 0.001	< 0.0005	0.0086	0.011	0.23	0.0046	< 0.01	< 0.0002	< 0.005	1.07	0.0058	< 0.002
	4/28/2020	NA	0.0022	0.250	NA	NA	< 0.005	0.0065	0.24	0.0017	NA	NA	< 0.005	0.639	0.0054	NA
	12/8/2020	NA	0.0015	0.280	NA	NA	< 0.005	0.0089	0.26	0.0023	< 0.01	< 0.0002	< 0.005	1.76	0.0031	NA
	5/11/2021	< 0.003	0.0011	0.260	< 0.001	< 0.0005	< 0.005	0.008	0.24	0.00085	< 0.01	< 0.0002	< 0.005	1.42	0.0049	< 0.002
	8/24/2021	< 0.003	0.0017	0.24	< 0.001	< 0.0005	< 0.005	0.0082	0.21	0.002	< 0.01	< 0.0002	< 0.005	0.638	0.0051	< 0.002
	11/30/2021	< 0.003	0.0015	0.200	< 0.001	< 0.001	< 0.005	0.004	0.19	0.0005	0.0031	< 0.0002	< 0.005	DNYA	< 0.0025	< 0.002
MW-02 down-gradient	6/20/2017	< 0.003	0.0012	0.075	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	8/23/2017	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	0.19	< 0.0005	< 0.01	< 0.0002	< 0.005	0.833	< 0.0025	< 0.002
	11/7/2017	< 0.003	0.0014	0.091	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.309	0.0027	< 0.002
	5/15/2018	< 0.003	0.0013	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	< 0.01	0.0004	< 0.005	< 0.408	< 0.0025	< 0.002
	8/7/2018	< 0.003	0.0016	0.067	<^ 0.001	< 0.0005	< 0.005	< 0.001	0.15	< 0.0005	< 0.01	< 0.0002	< 0.005	0.622	< 0.0025	< 0.002
	10/30/2018	< 0.003	0.0015	0.067	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	< 0.005	0.564	< 0.0025	< 0.002
	2/26/2019	< 0.003	0.0026	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.16	0.0013	< 0.01	< 0.0002	< 0.005	< 0.425	< 0.0025	< 0.002
	4/30/2019	< 0.003	0.0013	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.16	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.441	< 0.0025	< 0.002
	GWPS	**NS**	**0.022**	**2.0**	**NS**	**NS**	**0.063**	**0.119**	**4.0**	**0.036**	**NS**	**NS**	**0.1**	**5.0**	**0.05**	**NS**
	8/26/2019	< 0.003	0.0011	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	0.18	< 0.0005	< 0.01	< 0.0002	< 0.005	1.180	< 0.0025	< 0.002
	2/24/2020	< 0.003	0.0011	0.061	< ^ 0.001	< 0.0005	< 0.005	< 0.001	0.20	< 0.0005	< 0.01	< 0.0002	< 0.005	0.485	< 0.0025	< 0.002
	4/28/2020	NA	0.0016	0.06	NA	NA	< 0.005	< 0.001	0.20	< 0.0005	NA	NA	< 0.005	< 0.54	< 0.0025	NA
	12/9/2020	NA	< 0.001	0.076	NA	NA	< 0.005	< 0.001	0.15	< 0.0005	< 0.01	< 0.0002	0.0059	< 0.471	< 0.0025	NA
	5/11/2021	< 0.003	0.0015	0.057	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	< 0.01	< 0.0002	0.0095	< 0.528	< 0.0025	< 0.002
	8/24/2021	< 0.003	0.0014	0.073	< 0.001	< 0.0005	< 0.005	< 0.001	0.17	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.47	< 0.0025	< 0.002
	11/30/2021	< 0.003	0.0017	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	0.14	< 0.0005	0.0045	< 0.0002	< 0.005	DNYA	< 0.0025	< 0.002

Notes:
All statistics use the detection limit for non-detect results.
All units are in mg/l except Radium is in pCi/L as noted.
State Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I: Potable Resource Groundwater.
Federal Maximum Contaminant Levels (MCLs) obtained from Code of Federal Regulations (CFR) Title 40, Chapter I, Subchapter D, Part 141.

F1 - MS and/or MSD Recovery outside of limits.
NS - No Standard
* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
DNYA - Data not yet available

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

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-03 down-gradient	6/20/2017	< 0.003	0.0013	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.325	< 0.0025	< 0.002
	8/23/2017	< 0.003	0.0010	0.066	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	< 0.01	< 0.0002	< 0.005	1.200	< 0.0025	< 0.002
	11/7/2017	< 0.003	0.0013	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	0.26	< 0.0005	< 0.01	< 0.0002	< 0.005	0.588	< 0.0025	< 0.002
	5/15/2018	< 0.003	0.0010	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.489	< 0.0025	< 0.002
	8/7/2018	< 0.003	0.0015	0.067	<^ 0.001	< 0.0005	< 0.005	< 0.001	0.22	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	10/30/2018	< 0.003	0.0014	0.056	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.354	< 0.0025	< 0.002
	2/26/2019	< 0.003	0.0013	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	0.0007	< 0.01	< 0.0002	< 0.005	< 0.399	< 0.0025	< 0.002
	4/30/2019	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	0.22	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.668	< 0.0025	< 0.002
	GWPS	**NS**	**0.022**	**2.0**	**NS**	**NS**	**0.063**	**0.119**	**4.0**	**0.036**	**NS**	**NS**	**0.1**	**5.0**	**0.05**	**NS**
	8/26/2019	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.26	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.444	< 0.0025	< 0.002
	2/24/2020	< 0.003	< 0.001	0.066	< ^ 0.001	< 0.0005	< 0.005	< 0.001	0.22	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.400	< 0.0025	< 0.002
	4/28/2020	NA	0.0013	0.066	NA	NA	< 0.005	< 0.001	0.22	< 0.0005	NA	NA	< 0.005	< 0.498	0.0036	NA
	12/9/2020	NA	< 0.001	0.086	NA	NA	< 0.005	< 0.001	0.28	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.432	< 0.0025	NA
	5/11/2021	< 0.003	< 0.001	0.07	< 0.001	< 0.0005	< 0.005	< 0.001	0.21	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.519	< 0.0025	< 0.002
	8/24/2021	< 0.003	0.0012	0.072	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.444	< 0.0025	< 0.002
	11/30/2021	< 0.003	0.001	0.063	< 0.001	< 0.0005	< 0.005	< 0.001	0.26	< 0.0005	0.004	< 0.0002	< 0.005	DNYA	< 0.0025	< 0.002
MW-04 down-gradient	6/20/2017	< 0.003	< 0.001	0.0025	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.343	< 0.0025	< 0.002
	8/28/2017	< 0.003	< 0.001	0.028	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	< 0.01	< 0.0002	0.013	< 0.246	< 0.0025	< 0.002
	11/7/2017	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.332	0.0092	< 0.002
	5/15/2018	< 0.003	< 0.001	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	0.27	< 0.0005	< 0.01	< 0.0002	< 0.005	0.661	< 0.0025	< 0.002
	8/7/2018	< 0.003	0.0011	0.031	<^ 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	< 0.01	< 0.0002	0.006	< 0.334	< 0.0025	< 0.002
	10/30/2018	< 0.003	< 0.001	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	< 0.01	< 0.0002	< 0.005	0.423	< 0.0025	< 0.002
	2/26/2019	< 0.003	0.0013	0.033	< 0.001	< 0.0005	< 0.005	0.001	0.25	0.0012	< 0.01	< 0.0002	< 0.005	0.366	< 0.0025	< 0.002
	4/30/2019	< 0.003	< 0.001	0.026	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.684	< 0.0025	< 0.002
	GWPS	**NS**	**0.022**	**2.0**	**NS**	**NS**	**0.063**	**0.119**	**4.0**	**0.036**	**NS**	**NS**	**0.1**	**5.0**	**0.05**	**NS**
	8/26/2019	< 0.003	< 0.001	0.032	< 0.001	< 0.0005	< 0.005	< 0.001	0.24	< 0.0005	< 0.01	< 0.0002	0.008	1.090	< 0.0025	< 0.002
	2/24/2020	< 0.003	< 0.001	0.024	< ^ 0.001	< 0.0005	< 0.005	< 0.001	0.20	< 0.0005	< 0.01	< 0.0002	< 0.005	0.595	< 0.0025	< 0.002
	4/28/2020	NA	< 0.001	0.025	NA	NA	< 0.005	< 0.001	0.27	< 0.0005	NA	NA	< 0.005	< 0.465	< 0.0025	NA
	12/9/2020	NA	< 0.001	0.034	NA	NA	< 0.005	< 0.001	0.32	< 0.0005	< 0.01	< 0.0002	0.0076	< 0.411	< 0.0025	NA
	5/11/2021	< 0.003	< 0.001	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	< 0.01	< 0.0002	< 0.005	0.533	< 0.0025	< 0.002
	8/24/2021	< 0.003	< 0.001	0.024	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	< 0.01	< 0.0002	0.014	< 0.427	< 0.0025	< 0.002
	11/30/2021	< 0.003	0.001	0.035	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	< 0.0005	0.0035	< 0.0002	< 0.005	DNYA	< 0.0025	< 0.002
MW-05 down-gradient	5/17/2016	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.373	< 0.0025	< 0.002
	8/16/2016	< 0.003	< 0.001	0.060	< 0.001	< 0.0005	< 0.005	< 0.001	0.30	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.452	< 0.0025	< 0.002
	11/15/2016	< 0.003	< 0.001	0.051	< 0.001	< 0.0005	< 0.005	< 0.001	0.23	< 0.0005	< 0.01	< 0.0002	< 0.005	0.449	< 0.0025	< 0.002
	2/14/2017	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	0.25	0.00091	< 0.01	< 0.0002	< 0.005	< 0.359	< 0.0025	< 0.002
	5/1/2017	< 0.003	< 0.001	0.059	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	< 0.01	< 0.0002	0.0066	< 0.439	< 0.0025	< 0.002
	6/20/2017	< 0.003	< 0.001	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.365	< 0.0025	< 0.002
	8/28/2017	< 0.003	< 0.001	0.064	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	< 0.01	< 0.0002	0.0085	0.381	< 0.0025	< 0.002
	11/7/2017	< 0.003	< 0.001	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.341	< 0.0025	< 0.002
	5/15/2018	< 0.003	< 0.001	0.062	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	< 0.01	< 0.0002	< 0.005	< 0.390	< 0.0025	< 0.002
	8/7/2018	< 0.003	< 0.001	0.054	<^ 0.001	< 0.0005	< 0.005	< 0.001	0.32	< 0.0005	< 0.01	< 0.0002	0.0069	0.523	< 0.0025	< 0.002
	4/30/2019	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	< 0.005	< 0.001	0.36	< 0.0005	< 0.01	< 0.0002	0.0061	< 0.709	< 0.0025	< 0.002
	GWPS	**NS**	**0.022**	**2.0**	**NS**	**NS**	**0.063**	**0.119**	**4.0**	**0.036**	**NS**	**NS**	**0.1**	**5.0**	**0.05**	**NS**
	8/26/2019	< 0.003	< 0.001	0.050	< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	< 0.01	< 0.0002	0.0067	0.651	< 0.0025	< 0.002
	2/24/2020	< 0.003	< 0.001	0.057	< ^ 0.001	< 0.0005	< 0.005	< 0.001	0.36	< 0.0005	< 0.01	< 0.0002	0.0061	0.506	< 0.0025	< 0.002
	4/28/2020	NA	0.001	0.052	NA	NA	< 0.005	< 0.001	0.37	< 0.0005	NA	NA	0.0074	0.508	< 0.0025	NA
	12/9/2020	NA	< 0.001	0.05	NA	NA	< 0.005	< 0.001	0.31	< 0.0005	< 0.01	< 0.0002	0.0072	0.569	< 0.0025	NA
	5/11/2021	< 0.003	< 0.001	0.04	< 0.001	< 0.0005	< 0.005	< 0.001	0.38	< 0.0005	< 0.01	< 0.0002	0.0062	< 0.525	< 0.0025	< 0.002
	8/24/2021	< 0.003	< 0.001	0.041	< 0.001	< 0.0005	0.007	< 0.001	0.32	< 0.0005	< 0.01	< 0.0002	0.0073	0.863	< 0.0025	< 0.002
	11/30/2021	< 0.003	0.0011	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.30	< 0.0005	0.0052	< 0.0002	0.0051	DNYA	< 0.0025	< 0.002

Notes:
All statistics use the detection limit for non-detect results.
All units are in mg/l except Radium is in pCi/L as noted.
State Standards obtained from IAC, Title 35, Chapter I, Part 620, Subpart D, Section 620.410 - Groundwater Quality Standards for Class I: Potable Resource Groundwater.
Federal Maximum Contaminant Levels (MCLs) obtained from Code of Federal Regulations (CFR) Title 40, Chapter I, Subchapter D, Part 141.

F1 - MS and/or MSD Recovery outside of limits.
NS - No Standard
* - LCS or LCSD is outside acceptance limits.
^ - Denotes instrument related QC exceeds the control limits
DNYA - Data not yet available

APPENDIX A
Analytical Data Packages from 2021 Assessment Monitoring

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-199030-1
Client Project/Site: Powerton CCR
Revision: 1

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

Attn: Richard Gnat

Diana Mockler

Authorized for release by:
6/25/2021 8:31:42 AM

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

Table of Contents

Job ID: 500-199030-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-199030-1

Comments
No additional comments.

Receipt
The samples were received on 5/12/2021 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 2 coolers at receipt time were 0.5º C and 0.7º 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.

Method Summary

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

Job ID: 500-199030-1

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: 500-199030-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-199030-1	MW-01	Water	05/11/21 13:06	05/12/21 14:55	
500-199030-2	MW-02	Water	05/11/21 12:06	05/12/21 14:55	
500-199030-3	MW-03	Water	05/11/21 11:07	05/12/21 14:55	
500-199030-4	MW-04	Water	05/11/21 10:09	05/12/21 14:55	
500-199030-5	MW-05	Water	05/11/21 09:06	05/12/21 14:55	
500-199030-6	MW-10	Water	05/11/21 14:27	05/12/21 14:55	
500-199030-7	FAB Duplicate	Water	05/11/21 00:00	05/12/21 14:55	

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

Job ID: 500-199030-1

Client Sample ID: MW-01

Date Collected: 05/11/21 13:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-1

Matrix: Water

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 18:08	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 16:48	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:48	1
Barium	**0.043**		0.0025		mg/L		05/14/21 08:28	05/17/21 16:48	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:48	1
Boron	**0.21**		0.050		mg/L		05/14/21 08:28	05/18/21 12:46	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:48	1
Calcium	**85**		0.20		mg/L		05/14/21 08:28	05/17/21 16:48	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 16:48	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 16:48	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 16:48	1
Molybdenum	**0.010**		0.0050		mg/L		05/14/21 08:28	05/17/21 16:48	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 16:48	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 16:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**450**		10		mg/L			05/14/21 05:58	1
Chloride	**51**		4.0		mg/L			05/27/21 12:57	2
Fluoride	**0.21**		0.10		mg/L			05/27/21 07:33	1
Sulfate	**37**		10		mg/L			05/27/21 12:23	2

Client Sample Results

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

Job ID: 500-199030-1

Client Sample ID: MW-02

Date Collected: 05/11/21 12:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:06	1
Arsenic	**0.0015**		0.0010		mg/L		05/14/21 08:28	05/17/21 17:06	1
Barium	**0.057**		0.0025		mg/L		05/14/21 08:28	05/17/21 17:06	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:06	1
Boron	**0.23**		0.050		mg/L		05/14/21 08:28	05/18/21 13:03	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:06	1
Calcium	**79**		0.20		mg/L		05/14/21 08:28	05/17/21 17:06	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:06	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:06	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:06	1
Molybdenum	**0.0095**		0.0050		mg/L		05/14/21 08:28	05/17/21 17:06	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:06	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**370**		10		mg/L			05/14/21 06:01	1
Chloride	**51**		4.0		mg/L			05/27/21 12:57	2
Fluoride	**0.21**		0.10		mg/L			05/27/21 07:43	1
Sulfate	**37**		10		mg/L			05/27/21 12:26	2

Client Sample Results

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

Job ID: 500-199030-1

Client Sample ID: MW-03

Date Collected: 05/11/21 11:07
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-3

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		05/14/21 08:28	05/17/21 17:09	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:09	1
Barium	**0.070**		0.0025		mg/L		05/14/21 08:28	05/17/21 17:09	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:09	1
Boron	**0.22**		0.050		mg/L		05/14/21 08:28	05/18/21 13:07	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:09	1
Calcium	**75**		0.20		mg/L		05/14/21 08:28	05/17/21 17:09	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:09	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:09	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:09	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:09	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:09	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**390**		10		mg/L			05/14/21 06:03	1
Chloride	**49**		4.0		mg/L			05/27/21 12:30	2
Fluoride	**0.21**		0.10		mg/L			05/27/21 07:46	1
Sulfate	**38**		10		mg/L			05/27/21 12:27	2

Client Sample Results

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

Job ID: 500-199030-1

Client Sample ID: MW-04

Date Collected: 05/11/21 10:09
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:12	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:12	1
Barium	**0.025**		0.0025		mg/L		05/14/21 08:28	05/17/21 17:12	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:12	1
Boron	**0.61**		0.10		mg/L		05/14/21 08:28	05/18/21 13:10	2
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:12	1
Calcium	**77**		0.20		mg/L		05/14/21 08:28	05/17/21 17:12	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:12	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:12	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:12	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:12	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:12	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**410**		10		mg/L			05/14/21 06:06	1
Chloride	**44**		4.0		mg/L			05/27/21 12:30	2
Fluoride	**0.33**		0.10		mg/L			05/27/21 07:49	1
Sulfate	**76**		10		mg/L			05/27/21 12:27	2

Client Sample Results

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

Job ID: 500-199030-1

Client Sample ID: MW-05

Date Collected: 05/11/21 09:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:28	05/17/21 17:23	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:23	1
Barium	**0.040**		0.0025		mg/L		05/14/21 08:28	05/17/21 17:23	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:23	1
Boron	**0.50**		0.050		mg/L		05/14/21 08:28	05/18/21 13:20	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:23	1
Calcium	**83**		0.20		mg/L		05/14/21 08:28	05/17/21 17:23	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:23	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:23	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:23	1
Molybdenum	**0.0062**		0.0050		mg/L		05/14/21 08:28	05/17/21 17:23	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:28	05/17/21 17:23	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**530**		10		mg/L			05/14/21 06:09	1
Chloride	**52**		4.0		mg/L			05/27/21 12:31	2
Fluoride	**0.38**		0.10		mg/L			05/27/21 07:52	1
Sulfate	**100**		25		mg/L			05/27/21 12:33	5

Client Sample Results

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

Job ID: 500-199030-1

Client Sample ID: MW-10

Date Collected: 05/11/21 14:27
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-6

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		05/14/21 08:28	05/17/21 17:26	1
Arsenic	**0.0011**		0.0010		mg/L		05/14/21 08:28	05/17/21 17:26	1
Barium	**0.26**		0.0025		mg/L		05/14/21 08:28	05/17/21 17:26	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:26	1
Boron	**0.64**		0.10		mg/L		05/14/21 08:28	05/18/21 13:24	2
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:26	1
Calcium	**100**		0.20		mg/L		05/14/21 08:28	05/17/21 17:26	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:26	1
Cobalt	**0.0080**		0.0010		mg/L		05/14/21 08:28	05/17/21 17:26	1
Lead	**0.00085**		0.00050		mg/L		05/14/21 08:28	05/17/21 17:26	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:26	1
Selenium	**0.0049**		0.0025		mg/L		05/14/21 08:28	05/17/21 17:26	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**540**		10		mg/L			05/14/21 06:11	1
Chloride	**52**		4.0		mg/L			05/27/21 12:31	2
Fluoride	**0.24**		0.10		mg/L			05/27/21 07:56	1
Sulfate	**59**		10		mg/L			05/27/21 12:33	2

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

Job ID: 500-199030-1

Client Sample ID: FAB Duplicate

Date Collected: 05/11/21 00:00
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-7

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		05/14/21 08:28	05/17/21 17:30	1
Arsenic	**0.0014**		0.0010		mg/L		05/14/21 08:28	05/17/21 17:30	1
Barium	**0.27**		0.0025		mg/L		05/14/21 08:28	05/17/21 17:30	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:28	05/17/21 17:30	1
Boron	**0.63**		0.10		mg/L		05/14/21 08:28	05/18/21 13:27	2
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:28	05/17/21 17:30	1
Calcium	**110**		0.20		mg/L		05/14/21 08:28	05/17/21 17:30	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:30	1
Cobalt	**0.0097**		0.0010		mg/L		05/14/21 08:28	05/17/21 17:30	1
Lead	**0.0014**		0.00050		mg/L		05/14/21 08:28	05/17/21 17:30	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:28	05/17/21 17:30	1
Selenium	**0.0050**		0.0025		mg/L		05/14/21 08:28	05/17/21 17:30	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:28	05/17/21 17:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**500**		10		mg/L			05/14/21 06:14	1
Chloride	**54**		10		mg/L			05/27/21 12:44	5
Fluoride	**0.24**		0.10		mg/L			05/27/21 08:08	1
Sulfate	**56**		25		mg/L			05/27/21 12:43	5

Definitions/Glossary

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

Job ID: 500-199030-1

Qualifiers

Metals

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.
¤	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

Metals

Prep Batch: 598871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total Recoverable	Water	3005A	
500-199030-2	MW-02	Total Recoverable	Water	3005A	
500-199030-3	MW-03	Total Recoverable	Water	3005A	
500-199030-4	MW-04	Total Recoverable	Water	3005A	
500-199030-5	MW-05	Total Recoverable	Water	3005A	
500-199030-6	MW-10	Total Recoverable	Water	3005A	
500-199030-7	FAB Duplicate	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	
500-199030-1 MS	MW-01	Total Recoverable	Water	3005A	
500-199030-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-199030-1 DU	MW-01	Total Recoverable	Water	3005A	

Analysis Batch: 599211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	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
500-199030-1 MS	MW-01	Total Recoverable	Water	6010C	598871
500-199030-1 MSD	MW-01	Total Recoverable	Water	6010C	598871
500-199030-1 DU	MW-01	Total Recoverable	Water	6010C	598871

Analysis Batch: 599524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total Recoverable	Water	6020A	598871
500-199030-2	MW-02	Total Recoverable	Water	6020A	598871
500-199030-3	MW-03	Total Recoverable	Water	6020A	598871
500-199030-4	MW-04	Total Recoverable	Water	6020A	598871
500-199030-5	MW-05	Total Recoverable	Water	6020A	598871
500-199030-6	MW-10	Total Recoverable	Water	6020A	598871
500-199030-7	FAB Duplicate	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
500-199030-1 MS	MW-01	Total Recoverable	Water	6020A	598871
500-199030-1 MSD	MW-01	Total Recoverable	Water	6020A	598871
500-199030-1 DU	MW-01	Total Recoverable	Water	6020A	598871

Prep Batch: 599726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	7470A	
MB 500-599726/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-599726/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 599734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total Recoverable	Water	6020A	598871
500-199030-2	MW-02	Total Recoverable	Water	6020A	598871
500-199030-3	MW-03	Total Recoverable	Water	6020A	598871
500-199030-4	MW-04	Total Recoverable	Water	6020A	598871
500-199030-5	MW-05	Total Recoverable	Water	6020A	598871
500-199030-6	MW-10	Total Recoverable	Water	6020A	598871

Metals (Continued)

Analysis Batch: 599734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-7	FAB Duplicate	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
500-199030-1 MS	MW-01	Total Recoverable	Water	6020A	598871
500-199030-1 MSD	MW-01	Total Recoverable	Water	6020A	598871
500-199030-1 DU	MW-01	Total Recoverable	Water	6020A	598871

Analysis Batch: 599974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	7470A	599726
MB 500-599726/12-A	Method Blank	Total/NA	Water	7470A	599726
LCS 500-599726/13-A	Lab Control Sample	Total/NA	Water	7470A	599726

General Chemistry

Analysis Batch: 598816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	SM 2540C	
500-199030-2	MW-02	Total/NA	Water	SM 2540C	
500-199030-3	MW-03	Total/NA	Water	SM 2540C	
500-199030-4	MW-04	Total/NA	Water	SM 2540C	
500-199030-5	MW-05	Total/NA	Water	SM 2540C	
500-199030-6	MW-10	Total/NA	Water	SM 2540C	
500-199030-7	FAB Duplicate	Total/NA	Water	SM 2540C	
MB 500-598816/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-598816/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 601198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	SM 4500 F C	
500-199030-2	MW-02	Total/NA	Water	SM 4500 F C	
500-199030-3	MW-03	Total/NA	Water	SM 4500 F C	
500-199030-4	MW-04	Total/NA	Water	SM 4500 F C	
500-199030-5	MW-05	Total/NA	Water	SM 4500 F C	
500-199030-6	MW-10	Total/NA	Water	SM 4500 F C	
500-199030-7	FAB Duplicate	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	
500-199030-1 MS	MW-01	Total/NA	Water	SM 4500 F C	
500-199030-1 MSD	MW-01	Total/NA	Water	SM 4500 F C	

Analysis Batch: 601223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-199030-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-199030-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-199030-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-199030-5	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-199030-6	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-199030-7	FAB Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-601223/27	Method Blank	Total/NA	Water	SM 4500 Cl- E	

General Chemistry (Continued)

Analysis Batch: 601223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-601223/51	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-601223/28	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-601223/52	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 601224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-199030-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-199030-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-199030-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-199030-5	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-199030-6	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-199030-7	FAB Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-601224/45	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-601224/46	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

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: 500-199030-1 MS
Matrix: Water
Analysis Batch: 599211

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	<0.010		0.500	0.536		mg/L		107	75 - 125

Lab Sample ID: 500-199030-1 MSD
Matrix: Water
Analysis Batch: 599211

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	<0.010		0.500	0.535		mg/L		107	75 - 125	0	20

Lab Sample ID: 500-199030-1 DU
Matrix: Water
Analysis Batch: 599211

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.010		<0.010		mg/L		NC	20

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

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

Lab Sample ID: MB 500-598871/1-A
Matrix: Water
Analysis Batch: 599734

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
Boron	<0.050		0.050		mg/L		05/14/21 08:28	05/18/21 12:39	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
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: LCS 500-598871/2-A
Matrix: Water
Analysis Batch: 599734

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
Boron	1.00	0.979		mg/L		98	80 - 120

Lab Sample ID: 500-199030-1 MS
Matrix: Water
Analysis Batch: 599524

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.527		mg/L		105	75 - 125
Arsenic	<0.0010		0.100	0.106		mg/L		105	75 - 125
Barium	0.043		2.00	2.09		mg/L		102	75 - 125
Beryllium	<0.0010		0.0500	0.0513		mg/L		103	75 - 125
Cadmium	<0.00050		0.0500	0.0497		mg/L		99	75 - 125
Calcium	85		10.0	91.6	4	mg/L		64	75 - 125
Chromium	<0.0050		0.200	0.198		mg/L		99	75 - 125
Cobalt	<0.0010		0.500	0.481		mg/L		96	75 - 125
Lead	<0.00050		0.100	0.112		mg/L		112	75 - 125
Molybdenum	0.010		1.00	1.02		mg/L		101	75 - 125
Selenium	<0.0025		0.100	0.103		mg/L		103	75 - 125
Thallium	<0.0020		0.100	0.113		mg/L		113	75 - 125

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

Lab Sample ID: 500-199030-1 MS
Matrix: Water
Analysis Batch: 599734

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.21		1.00	1.17		mg/L		96	75 - 125

Lab Sample ID: 500-199030-1 MSD
Matrix: Water
Analysis Batch: 599524

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.508		mg/L		102	75 - 125	4	20
Arsenic	<0.0010		0.100	0.102		mg/L		101	75 - 125	4	20
Barium	0.043		2.00	2.01		mg/L		98	75 - 125	4	20
Beryllium	<0.0010		0.0500	0.0493		mg/L		99	75 - 125	4	20
Cadmium	<0.00050		0.0500	0.0477		mg/L		95	75 - 125	4	20
Calcium	85		10.0	88.8	4	mg/L		36	75 - 125	3	20
Chromium	<0.0050		0.200	0.193		mg/L		96	75 - 125	3	20
Cobalt	<0.0010		0.500	0.466		mg/L		93	75 - 125	3	20
Lead	<0.00050		0.100	0.107		mg/L		107	75 - 125	4	20
Molybdenum	0.010		1.00	0.985		mg/L		97	75 - 125	4	20
Selenium	<0.0025		0.100	0.101		mg/L		101	75 - 125	2	20
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125	5	20

Lab Sample ID: 500-199030-1 MSD
Matrix: Water
Analysis Batch: 599734

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.21		1.00	1.15		mg/L		94	75 - 125	2	20

Lab Sample ID: 500-199030-1 DU
Matrix: Water
Analysis Batch: 599524

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.043		0.0433		mg/L		0.2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	85		84.4		mg/L		0.9	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.010		0.00995		mg/L		3	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

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

Lab Sample ID: 500-199030-1 DU
Matrix: Water
Analysis Batch: 599734

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 598871

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	0.21		0.204		mg/L		4	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-599726/12-A
Matrix: Water
Analysis Batch: 599974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 599726

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 07:19	1

Lab Sample ID: LCS 500-599726/13-A
Matrix: Water
Analysis Batch: 599974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 599726

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00203		mg/L		101	80 - 120

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

Lab Sample ID: MB 500-598816/1
Matrix: Water
Analysis Batch: 598816

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 05:38	1

Lab Sample ID: LCS 500-598816/2
Matrix: Water
Analysis Batch: 598816

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-601223/27
Matrix: Water
Analysis Batch: 601223

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			05/27/21 12:33	1

Lab Sample ID: MB 500-601223/51
Matrix: Water
Analysis Batch: 601223

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			05/27/21 12:50	1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: LCS 500-601223/28
Matrix: Water
Analysis Batch: 601223

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	20.8		mg/L		104	85 - 115

Lab Sample ID: LCS 500-601223/52
Matrix: Water
Analysis Batch: 601223

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

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

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

Lab Sample ID: 500-199030-1 MS
Matrix: Water
Analysis Batch: 601198

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.21		10.0	11.6		mg/L		114	75 - 125

Lab Sample ID: 500-199030-1 MSD
Matrix: Water
Analysis Batch: 601198

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.21		10.0	11.7		mg/L		115	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-601224/45
Matrix: Water
Analysis Batch: 601224

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			05/27/21 12:13	1

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

Job ID: 500-199030-1

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

Lab Sample ID: LCS 500-601224/46
Matrix: Water
Analysis Batch: 601224

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	22.0		mg/L		110	80 - 120		

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Mitchel Dolan	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No.: 500-91218-40687 1
Client Contact: Mitchel Dolan	Phone: 262-622-1143	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: IL	Page: Page 1 of 1
Company: KPRG and Associates Inc.	PWSID:			Job #: 500-199030
Address: 14665 West Lisbon Road, Suite 1A	Due Date Requested:			
City: Brookfield	TAT Requested (days):			
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-781-0475(Tel)	PO #: 4502051132			
Email: mitcheld@kprginc.com FAD	WO #:			
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling	Project #: 50011612			
Site: Illinois	SSOW#:			

500-199030 COC

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	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 - Local Method	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	N	N		
1	MW-01	5/11/21	1306	G	Water								
2	MW-02	5/11/21	1206		Water								
3	MW-03	5/11/21	1107		Water								
4	MW-04	5/11/21	1009		Water								
5	MW-05	5/11/21	0906		Water								
6	MW-10	5/11/21	1427		Water								
7	FAB Duplicate	5/11/21	—		Water								

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date.	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Mitchel Dolan	5/11/21 / 1700	KPRG	FEDEX	5/11/21 / 1700	
2				Shin Scott	5/12/21 1455	BTACHI
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
		0.5, 0.7


ORIGIN ID:PIRA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US
SHIP DATE: 11MAY21
ACTWGT: 54.75 LB
CAD: 6994780/SSFE2201
DIMS: 23x13x13 IN
BILL THIRD PARTY
TO TEST AMERICA
SAMPLE RECEIVING
2417 BOND ST
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
500-199030 Wayb
FedEx
Express
TRK# 0201 7870 4764 1793
WED - 12 MAY 4:30P
STANDARD OVERNIGHT
UF JOTA
60484
IL-US ORD
Part # 156297-433 REV2 EXP 07/21


(262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US
SHIP DATE: 11MAY21
ACTWGT: 63.65 LB
CAD: 6994780/SSFE2201
DIMS: 23x13x13 IN
BILL THIRD PARTY
TO TEST AMERICA
SAMPLE RECEIVING
2417 BOND ST
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
FedEx
Express
TRK# 0201 7870 4756 4883
WED - 12 MAY 4:30P
STANDARD OVERNIGHT
UF JOTA
60484
IL-US ORD
Part # 156297-433 REV2 EXP 07/21

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-148525.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-199030-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/1/2021			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Powerton CCR	Project #: 50011612			
Site: MWG - Powerton	SSOW#:			

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:

Analysis Requested

Sample Identification - Client ID (Lab ID)	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/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-01 (500-199030-1)	5/11/21	13:06 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-02 (500-199030-2)	5/11/21	12:06 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-03 (500-199030-3)	5/11/21	11:07 Central		Water			X	X	X	2	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-04 (500-199030-4)	5/11/21	10:09 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-05 (500-199030-5)	5/11/21	09:06 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-10 (500-199030-6)	5/11/21	14:27 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
FAB Duplicate (500-199030-7)	5/11/21	Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

Note: Since laboratory accreditations are subject to change, Eurofins 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Stephanie Hernandez	5/12/21 1630	ETA-CHI	FED EX		
2	FED EX				5/13/21 0845	ETA STL
3						

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

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199030-1

Login Number: 199030
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5,0.7
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: 500-199030-1

Client Sample ID: MW-01

Lab Sample ID: 500-199030-1

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 Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599211	05/14/21 18:08	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 16:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 12:46	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:44	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 05:58	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	601223	05/27/21 12:57	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:23	MS	TAL CHI

Client Sample ID: MW-02

Lab Sample ID: 500-199030-2

Date Collected: 05/11/21 12:06

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 Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:06	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 13:03	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:01	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	601223	05/27/21 12:57	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:43	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:26	MS	TAL CHI

Client Sample ID: MW-03

Lab Sample ID: 500-199030-3

Date Collected: 05/11/21 11:07

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 Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 13:07	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:03	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	601223	05/27/21 12:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:46	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:27	MS	TAL CHI

Lab Chronicle

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

Job ID: 500-199030-1

Client Sample ID: MW-04

Lab Sample ID: 500-199030-4

Date Collected: 05/11/21 10:09

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 Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:12	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 13:10	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	601223	05/27/21 12:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:49	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:27	MS	TAL CHI

Client Sample ID: MW-05

Lab Sample ID: 500-199030-5

Date Collected: 05/11/21 09:06

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 Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599734	05/18/21 13:20	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	601223	05/27/21 12:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601224	05/27/21 12:33	MS	TAL CHI

Client Sample ID: MW-10

Lab Sample ID: 500-199030-6

Date Collected: 05/11/21 14:27

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 Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:26	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 13:24	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	601223	05/27/21 12:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 07:56	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	601224	05/27/21 12:33	MS	TAL CHI

Client Sample ID: FAB Duplicate

Lab Sample ID: 500-199030-7

Date Collected: 05/11/21 00:00

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 Recoverable	Prep	3005A			598871	05/14/21 08:28	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 17:30	FXG	TAL CHI

Lab Chronicle

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

Job ID: 500-199030-1

Client Sample ID: FAB Duplicate

Date Collected: 05/11/21 00:00
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-7

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	6020A		2	599734	05/18/21 13:27	FXG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598816	05/14/21 06:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	601223	05/27/21 12:44	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	601198	05/27/21 08:08	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	601224	05/27/21 12:43	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-199030-1

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-199030-2
Client Project/Site: Powerton CCR

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

Attn: Richard Gnat

Diana Mockler

Authorized for release by:
6/16/2021 3:14:35 PM

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

Table of Contents

Job ID: 500-199030-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-199030-2

Comments
No additional comments.

Receipt
The samples were received on 5/12/2021 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 2 coolers at receipt time were 0.5º C and 0.7º C.

RAD
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-01 (500-199030-1), MW-02 (500-199030-2), MW-03 (500-199030-3), MW-04 (500-199030-4), MW-05 (500-199030-5), MW-10 (500-199030-6), FAB Duplicate (500-199030-7), (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-01 (500-199030-1), MW-02 (500-199030-2), MW-03 (500-199030-3), MW-04 (500-199030-4), MW-05 (500-199030-5), MW-10 (500-199030-6), FAB Duplicate (500-199030-7), (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 PrecSep_0:

Method PrecSep_0: Ra-228 Prep Batch 160-510281:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-02 (500-199030-2), MW-03 (500-199030-3), MW-10 (500-199030-6) and FAB Duplicate (500-199030-7). This is an indicator of matrix interference.

Method PrecSep-21:

Method PrecSep-21: Ra-226 Prep Batch 160-510273:

During the in-growth process, the following samples needed to be filtered due to sediment present in the sample: MW-02 (500-199030-2), MW-03 (500-199030-3), MW-10 (500-199030-6) and FAB Duplicate (500-199030-7). 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: 500-199030-2

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: 500-199030-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-199030-1	MW-01	Water	05/11/21 13:06	05/12/21 14:55	
500-199030-2	MW-02	Water	05/11/21 12:06	05/12/21 14:55	
500-199030-3	MW-03	Water	05/11/21 11:07	05/12/21 14:55	
500-199030-4	MW-04	Water	05/11/21 10:09	05/12/21 14:55	
500-199030-5	MW-05	Water	05/11/21 09:06	05/12/21 14:55	
500-199030-6	MW-10	Water	05/11/21 14:27	05/12/21 14:55	
500-199030-7	FAB Duplicate	Water	05/11/21 00:00	05/12/21 14:55	

Client Sample Results

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

Job ID: 500-199030-2

Client Sample ID: MW-01

Date Collected: 05/11/21 13:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-1

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	0.0867	U	0.0875	0.0878	1.00	0.137	pCi/L	05/18/21 10:13	06/15/21 07:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.0*		*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	0.434	U	0.330	0.332	1.00	0.518	pCi/L	05/18/21 11:20	06/09/21 10:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*76.0*		*40 - 110*	*05/18/21 11:20*	*06/09/21 10:52*	*1*
Y Carrier	*86.4*		*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	**0.521**		0.341	0.343	5.00	0.518	pCi/L		06/16/21 14:06	1

Client Sample Results

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

Job ID: 500-199030-2

Client Sample ID: MW-02

Date Collected: 05/11/21 12:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-2

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	-0.0256	U	0.0696	0.0697	1.00	0.154	pCi/L	05/18/21 10:13	06/15/21 07:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.2*		*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	0.352	U	0.327	0.329	1.00	0.528	pCi/L	05/18/21 11:20	06/09/21 10:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.2*		*40 - 110*	*05/18/21 11:20*	*06/09/21 10:52*	*1*
Y Carrier	*87.5*		*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	0.327	U	0.334	0.336	5.00	0.528	pCi/L		06/16/21 14:04	1

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

Job ID: 500-199030-2

Client Sample ID: MW-03

Date Collected: 05/11/21 11:07
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-3

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	0.0644	U	0.0829	0.0831	1.00	0.138	pCi/L	05/18/21 10:13	06/15/21 07:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.7*		*40 - 110*	*05/18/21 10:13*	*06/15/21 07:17*	*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	0.0875	U	0.296	0.297	1.00	0.519	pCi/L	05/18/21 11:20	06/09/21 10:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*72.7*		*40 - 110*	*05/18/21 11:20*	*06/09/21 10:52*	*1*
Y Carrier	*85.6*		*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	0.152	U	0.307	0.308	5.00	0.519	pCi/L		06/16/21 14:04	1

Client Sample ID: MW-04

Date Collected: 05/11/21 10:09
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-4

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	0.0429	U	0.0909	0.0910	1.00	0.162	pCi/L	05/18/21 10:13	06/15/21 07:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.3*		*40 - 110*	*05/18/21 10:13*	*06/15/21 07:17*	*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	**0.490**		0.305	0.308	1.00	0.462	pCi/L	05/18/21 11:20	06/09/21 10:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.3*		*40 - 110*	*05/18/21 11:20*	*06/09/21 10:52*	*1*
Y Carrier	*85.6*		*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	**0.533**		0.318	0.321	5.00	0.462	pCi/L		06/16/21 14:04	1

Client Sample ID: MW-05

Date Collected: 05/11/21 09:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-5

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	0.116	U	0.101	0.101	1.00	0.152	pCi/L	05/18/21 10:13	06/15/21 07:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.4*		*40 - 110*	*05/18/21 10:13*	*06/15/21 07:17*	*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	0.212	U	0.313	0.313	1.00	0.525	pCi/L	05/18/21 11:20	06/09/21 10:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.4*		*40 - 110*	*05/18/21 11:20*	*06/09/21 10:52*	*1*
Y Carrier	*84.9*		*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	0.328	U	0.329	0.329	5.00	0.525	pCi/L		06/16/21 14:04	1

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

Job ID: 500-199030-2

Client Sample ID: MW-10

Date Collected: 05/11/21 14:27
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-6

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	0.498		0.158	0.164	1.00	0.150	pCi/L	05/18/21 10:13	06/15/21 07:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.2*		*40 - 110*	*05/18/21 10:13*	*06/15/21 07:17*	*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	0.917		0.361	0.371	1.00	0.495	pCi/L	05/18/21 11:20	06/09/21 10:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*74.2*		*40 - 110*	*05/18/21 11:20*	*06/09/21 10:52*	*1*
Y Carrier	*86.7*		*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	1.42		0.394	0.406	5.00	0.495	pCi/L		06/16/21 14:04	1

Client Sample Results

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

Job ID: 500-199030-2

Client Sample ID: FAB Duplicate

Date Collected: 05/11/21 00:00
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-7

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	**0.554**		0.188	0.195	1.00	0.174	pCi/L	05/18/21 10:13	06/15/21 07:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.3*		*40 - 110*	*05/18/21 10:13*	*06/15/21 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	0.548	U	0.486	0.489	1.00	0.780	pCi/L	05/18/21 11:20	06/09/21 11:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.3*		*40 - 110*	*05/18/21 11:20*	*06/09/21 11:15*	*1*
Y Carrier	*85.6*		*40 - 110*	*05/18/21 11:20*	*06/09/21 11:15*	*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**		0.521	0.526	5.00	0.780	pCi/L		06/16/21 14:04	1

Definitions/Glossary

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

Job ID: 500-199030-2

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.
¤	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: 500-199030-2

Rad

Prep Batch: 510273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-199030-1	MW-01	Total/NA	Water	PrecSep-21	
500-199030-2	MW-02	Total/NA	Water	PrecSep-21	
500-199030-3	MW-03	Total/NA	Water	PrecSep-21	
500-199030-4	MW-04	Total/NA	Water	PrecSep-21	
500-199030-5	MW-05	Total/NA	Water	PrecSep-21	
500-199030-6	MW-10	Total/NA	Water	PrecSep-21	
500-199030-7	FAB Duplicate	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
500-199030-1	MW-01	Total/NA	Water	PrecSep_0	
500-199030-2	MW-02	Total/NA	Water	PrecSep_0	
500-199030-3	MW-03	Total/NA	Water	PrecSep_0	
500-199030-4	MW-04	Total/NA	Water	PrecSep_0	
500-199030-5	MW-05	Total/NA	Water	PrecSep_0	
500-199030-6	MW-10	Total/NA	Water	PrecSep_0	
500-199030-7	FAB Duplicate	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	

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 Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
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 %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.1*		*40 - 110*	*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 Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.3	10.49		1.13	1.00	0.153	pCi/L	92	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*82.6*		*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 Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
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	*MB %Yield*	*MB 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 Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.64	9.783		1.20	1.00	0.540	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*82.6*		*40 - 110*
Y Carrier	*86.0*		*40 - 110*

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Mitchel Dolan	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No.: 500-91218-40687 1
Client Contact: Mitchel Dolan	Phone: 262-622-1143	E-Mail: Diana Mockler@Eurofinset.com	State of Origin: IL	Page: Page 1 of 1
Company: KPRG and Associates Inc.	PWSID:			Job #: 500-199030
Address: 14665 West Lisbon Road, Suite 1A	Due Date Requested:			
City: Brookfield	TAT Requested (days):			
State, Zip: WI, 53005	Compliance Project: Δ Yes Δ No			
Phone: 262-781-0475(Tel)	PO #: 4502051132			
Email: mitcheld@kprginc.com FAB	WO #:			
Project Name: Powerton CCR Event Desc Quarterly Powerton CCR Sampling	Project #: 50011612			
Site: Illinois	SSOW#:			

500-199030 COC

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	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 - Local Method	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	N	N		
1	MW-01	5/11/21	1306	G	Water								
2	MW-02	5/11/21	1206		Water								
3	MW-03	5/11/21	1107		Water								
4	MW-04	5/11/21	1009		Water								
5	MW-05	5/11/21	0906		Water								
6	MW-10	5/11/21	1427		Water								
7	FAB Duplicate	5/11/21	—		Water								

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date.	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Mitchel Dolan	5/11/21 / 1700	KPRG	FEDEX	5/11/21 / 1700	
2				Shin Scott	5/12/21 1455	BTACHL
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks. 0.5, 0.7


ORIGIN ID:PIRA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US
SHIP DATE: 11MAY21
ACTWGT: 54.75 LB
CAD: 6994780/SSFE2201
DIMS: 23x13x13 IN
BILL THIRD PARTY
TO TEST AMERICA
SAMPLE RECEIVING
2417 BOND ST
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
500-199030 Wayb
FedEx
Express
TRK# 0201 7870 4764 1793
WED - 12 MAY 4:30P
STANDARD OVERNIGHT
UF JOTA
60484
IL-US ORD


(262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US
SHIP DATE: 11MAY21
ACTWGT: 63.65 LB
CAD: 6994780/SSFE2201
DIMS: 23x13x13 IN
BILL THIRD PARTY
TO TEST AMERICA
SAMPLE RECEIVING
2417 BOND ST
UNIVERSITY PARK IL 60484
(708) 534-5200
INV:
PO:
REF:
DEPT:
FedEx
Express
TRK# 0201 7870 4756 4883
WED - 12 MAY 4:30P
STANDARD OVERNIGHT
UF JOTA
60484
IL-US ORD

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-148525.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-199030-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 6/1/2021			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Powerton CCR	Project #: 50011612			
Site: MWG - Powerton	SSOW#:			

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:

Analysis Requested

Sample Identification - Client ID (Lab ID)	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/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-01 (500-199030-1)	5/11/21	13:06 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-02 (500-199030-2)	5/11/21	12:06 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-03 (500-199030-3)	5/11/21	11:07 Central		Water			X	X	X	2	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-04 (500-199030-4)	5/11/21	10:09 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-05 (500-199030-5)	5/11/21	09:06 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-10 (500-199030-6)	5/11/21	14:27 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
FAB Duplicate (500-199030-7)	5/11/21	Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

Note: Since laboratory accreditations are subject to change, Eurofins 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Stephanie Hernandez	5/12/21 1630	ETA-CHI	FED EX		
2	FED EX				5/13/21 0845	ETA STL
3						

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

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-199030-2

Login Number: 199030
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.5,0.7
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: 500-199030-2

Login Number: 199030
List Number: 2
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 </= 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	

Lab Chronicle

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

Job ID: 500-199030-2

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

Lab Sample ID: 500-199030-1
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 07:14	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	514537	06/16/21 14:06	FLC	TAL SL

Client Sample ID: MW-02
Date Collected: 05/11/21 12:06
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-2
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 10:52	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:04	FLC	TAL SL

Client Sample ID: MW-03
Date Collected: 05/11/21 11:07
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-3
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	514476	06/15/21 07:17	SCB	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	514537	06/16/21 14:04	FLC	TAL SL

Client Sample ID: MW-04
Date Collected: 05/11/21 10:09
Date Received: 05/12/21 14:55

Lab Sample ID: 500-199030-4
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	514476	06/15/21 07:17	SCB	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	514537	06/16/21 14:04	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-199030-2

Client Sample ID: MW-05

Lab Sample ID: 500-199030-5

Date Collected: 05/11/21 09:06

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	514476	06/15/21 07:17	SCB	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	514537	06/16/21 14:04	FLC	TAL SL

Client Sample ID: MW-10

Lab Sample ID: 500-199030-6

Date Collected: 05/11/21 14:27

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	514476	06/15/21 07:17	SCB	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	514537	06/16/21 14:04	FLC	TAL SL

Client Sample ID: FAB Duplicate

Lab Sample ID: 500-199030-7

Date Collected: 05/11/21 00:00

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	514476	06/15/21 07:18	SCB	TAL SL
Total/NA	Prep	PrecSep_0			510281	05/18/21 11:20	MJ	TAL SL
Total/NA	Analysis	904.0		1	513485	06/09/21 11:15	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	514537	06/16/21 14:04	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: 500-199030-2

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

Tracer/Carrier Summary

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

Job ID: 500-199030-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)
		Ba
Lab Sample ID	Client Sample ID	(40-110)
500-199030-1	MW-01	76.0
500-199030-2	MW-02	77.2
500-199030-3	MW-03	72.7
500-199030-4	MW-04	79.3
500-199030-5	MW-05	75.4
500-199030-6	MW-10	74.2
500-199030-7	FAB Duplicate	73.3
LCS 160-510273/1-A	Lab Control Sample	82.6
MB 160-510273/25-A	Method Blank	81.1

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
		Ba	Y
Lab Sample ID	Client Sample ID	(40-110)	(40-110)
500-199030-1	MW-01	76.0	86.4
500-199030-2	MW-02	77.2	87.5
500-199030-3	MW-03	72.7	85.6
500-199030-4	MW-04	79.3	85.6
500-199030-5	MW-05	75.4	84.9
500-199030-6	MW-10	74.2	86.7
500-199030-7	FAB Duplicate	73.3	85.6
LCS 160-510281/1-A	Lab Control Sample	82.6	86.0
MB 160-510281/25-A	Method Blank	81.1	89.0

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-201619-1
Client Project/Site: Powerton FAB CCR - Resample

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

Attn: Richard Gnat

Authorized for release by:
7/6/2021 4:34:49 PM
Robin Kintz, Project Manager II
(708)534-5200
Robin.Kintz@Eurofinset.com

Designee for

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

LINKS

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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.

Table of Contents

Case Narrative

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

Job ID: 500-201619-1

Job ID: 500-201619-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-201619-1

Comments
No additional comments.

Receipt
The samples were received on 6/29/2021 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0º C.

Metals
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 FAB CCR - Resample

Job ID: 500-201619-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

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 FAB CCR - Resample

Job ID: 500-201619-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-201619-1	MW-02	Water	06/28/21 09:36	06/29/21 15:20	
500-201619-2	MW-03	Water	06/28/21 09:09	06/29/21 15:20	
500-201619-3	MW-04	Water	06/28/21 08:38	06/29/21 15:20	
500-201619-4	MW-05	Water	06/28/21 08:03	06/29/21 15:20	
500-201619-5	MW-10	Water	06/28/21 10:20	06/29/21 15:20	

Client Sample Results

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

Job ID: 500-201619-1

Client Sample ID: MW-02

Date Collected: 06/28/21 09:36
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 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		07/01/21 09:45	07/02/21 07:48	1

Client Sample Results

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

Job ID: 500-201619-1

Client Sample ID: MW-03

Date Collected: 06/28/21 09:09
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 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		07/01/21 09:45	07/02/21 07:50	1

Client Sample Results

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

Job ID: 500-201619-1

Client Sample ID: MW-04

Date Collected: 06/28/21 08:38
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 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		07/01/21 09:45	07/02/21 07:52	1

Client Sample Results

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

Job ID: 500-201619-1

Client Sample ID: MW-05

Date Collected: 06/28/21 08:03
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:54	1

Client Sample Results

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

Job ID: 500-201619-1

Client Sample ID: MW-10

Date Collected: 06/28/21 10:20
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:56	1

Definitions/Glossary

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

Job ID: 500-201619-1

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 FAB CCR - Resample

Job ID: 500-201619-1

Metals

Prep Batch: 607205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201619-1	MW-02	Total/NA	Water	7470A	
500-201619-2	MW-03	Total/NA	Water	7470A	
500-201619-3	MW-04	Total/NA	Water	7470A	
500-201619-4	MW-05	Total/NA	Water	7470A	
500-201619-5	MW-10	Total/NA	Water	7470A	
MB 500-607205/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-607205/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 607459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201619-1	MW-02	Total Recoverable	Water	3005A	
500-201619-2	MW-03	Total Recoverable	Water	3005A	
500-201619-3	MW-04	Total Recoverable	Water	3005A	
500-201619-4	MW-05	Total Recoverable	Water	3005A	
500-201619-5	MW-10	Total Recoverable	Water	3005A	
MB 500-607459/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-607459/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 607515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201619-1	MW-02	Total/NA	Water	7470A	607205
500-201619-2	MW-03	Total/NA	Water	7470A	607205
500-201619-3	MW-04	Total/NA	Water	7470A	607205
500-201619-4	MW-05	Total/NA	Water	7470A	607205
500-201619-5	MW-10	Total/NA	Water	7470A	607205
MB 500-607205/12-A	Method Blank	Total/NA	Water	7470A	607205
LCS 500-607205/13-A	Lab Control Sample	Total/NA	Water	7470A	607205

Analysis Batch: 607812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-201619-1	MW-02	Total Recoverable	Water	6010C	607459
500-201619-2	MW-03	Total Recoverable	Water	6010C	607459
500-201619-3	MW-04	Total Recoverable	Water	6010C	607459
500-201619-4	MW-05	Total Recoverable	Water	6010C	607459
500-201619-5	MW-10	Total Recoverable	Water	6010C	607459
MB 500-607459/1-A	Method Blank	Total Recoverable	Water	6010C	607459
LCS 500-607459/2-A	Lab Control Sample	Total Recoverable	Water	6010C	607459

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-607459/1-A
Matrix: Water
Analysis Batch: 607812

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 607459

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/02/21 08:27	07/02/21 19:10	1

Lab Sample ID: LCS 500-607459/2-A
Matrix: Water
Analysis Batch: 607812

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 607459

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.529		mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-607205/12-A
Matrix: Water
Analysis Batch: 607515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 607205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/01/21 09:45	07/02/21 07:44	1

Lab Sample ID: LCS 500-607205/13-A
Matrix: Water
Analysis Batch: 607515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 607205

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00224		mg/L		112	80 - 120

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

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Rich Gnat	Site Contact: Mitchel Dolan	Date: 6/28/21	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**			Sampler:
Brookfield WI 53154	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(262) 781-0475 Phone	TAT if different from Below ___			Walk-in Client
(262) 781-0478 FAX	☐ 2 weeks			Lab Sampling
Project Name Powerton FAB CCR	☐ 1 week			
Site Powerton Station - Pekin IL	☐ 2 days			Job / SDG No
P O # 4501908159	☐ 1 day			500-201619

500-201619 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	6010C - Lithium	7470A - Mercury	Sample Specific Notes
1	MW-02	6/28	0936	G	W	1	N	N	X	X	
2	MW-03	6/28	0909	G	W	1			X	X	
3	MW-04	6/28	0838	G	W	1			X	X	
4	MW-05	6/28	0803	G	W	1			X	X	
5	MW-10	6/28	1020	G	W	1			X	X	
									4	4	

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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 & Comments. Lab Project #50011612.

4.0

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No		Cooler Temp (°C) Obs'd ___ Corr'd ___		Therm ID No ___
Relinquished by **Mitchel Dolan**	Company **KPRG**	Date/Time 6/28/1700	Received by **FedEx**	Company	Date/Time 6/29/21 / 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 6/29/21 520

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


ORIGIN ID:PIAA (000) 000-0000
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US
SHIP DATE: 28JUN21
ACTWGT: 61.00 LB
CAD: 6994779/SSFE2202
DIMS: 24x18x12 IN
BILL THIRD PARTY
TO SAMPLE RECEIVING
EUROFINS
2417 BOND ST
UNIVERSITY PARK IL 60484
(708) 534-5200
REF:
INV:
PO:
DEPT:
500-201619 Wayb
FedEx
Express
1 of 3
TRK# 0201 2808 9368 7467
TUE - 29 JUN 4:30P
STANDARD OVERNIGHT
MASTER
UF JOTA
30 qt
IL-US
60484
ORD

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-201619-1

Login Number: 201619
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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 FAB CCR - Resample

Job ID: 500-201619-1

Client Sample ID: MW-02
Date Collected: 06/28/21 09:36
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:16	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:48	MJG	TAL CHI

Client Sample ID: MW-03
Date Collected: 06/28/21 09:09
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:20	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:50	MJG	TAL CHI

Client Sample ID: MW-04
Date Collected: 06/28/21 08:38
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:23	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:52	MJG	TAL CHI

Client Sample ID: MW-05
Date Collected: 06/28/21 08:03
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:34	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:54	MJG	TAL CHI

Client Sample ID: MW-10
Date Collected: 06/28/21 10:20
Date Received: 06/29/21 15:20

Lab Sample ID: 500-201619-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			607459	07/02/21 08:27	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	607812	07/02/21 19:37	EEN	TAL CHI
Total/NA	Prep	7470A			607205	07/01/21 09:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	607515	07/02/21 07:56	MJG	TAL CHI

Lab Chronicle

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

Job ID: 500-201619-1

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. Job ID: 500-201619-1
Project/Site: Powerton FAB CCR - Resample

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-204320-1
Client Project/Site: Powerton FAB CCR
Revision: 1

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

Attn: Richard Gnat

Diana Mockler

Authorized for release by:
10/4/2021 12:09:18 PM

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

Table of Contents

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

Job ID: 500-204320-1

Job ID: 500-204320-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-204320-1

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: Units for Antimony and Beryllium need reported in mg/L.

Receipt
The samples were received on 8/25/2021 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.9º C, 5.9º C and 10.8º C.

Receipt Exceptions

The following sample(s) was received at the laboratory outside the required temperature criteria:sample #2 MW-01 and sample #3 MW-02 receiving cooler temp 10.8°C. Water present in sample

Units for Antimony and Beryllium need reported in mg/L

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.

Method Summary

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

Job ID: 500-204320-1

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 FAB CCR

Job ID: 500-204320-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-204320-1	MW-10	Water	08/24/21 16:20	08/25/21 15:10
500-204320-2	MW-01	Water	08/24/21 15:07	08/25/21 15:10
500-204320-3	MW-02	Water	08/24/21 13:32	08/25/21 15:10
500-204320-4	Duplicate	Water	08/24/21 00:00	08/25/21 15:10
500-204320-5	MW-03	Water	08/24/21 11:47	08/25/21 15:10
500-204320-6	MW-04	Water	08/24/21 10:33	08/25/21 15:10
500-204320-7	MW-05	Water	08/24/21 09:22	08/25/21 15:10

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

Job ID: 500-204320-1

Client Sample ID: MW-10

Date Collected: 08/24/21 16:20
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:12	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		09/07/21 08:35	09/08/21 18:02	1
Arsenic	**0.0017**		0.0010		mg/L		09/07/21 08:35	09/08/21 18:02	1
Barium	**0.24**		0.0025		mg/L		09/07/21 08:35	09/08/21 18:02	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:02	1
Boron	**0.42**		0.050		mg/L		09/07/21 08:35	09/08/21 18:02	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:02	1
Calcium	**98**		0.20		mg/L		09/07/21 08:35	09/08/21 18:02	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:02	1
Cobalt	**0.0082**		0.0010		mg/L		09/07/21 08:35	09/08/21 18:02	1
Lead	**0.0020**		0.00050		mg/L		09/07/21 08:35	09/08/21 18:02	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:02	1
Selenium	**0.0051**		0.0025		mg/L		09/07/21 08:35	09/08/21 18:02	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:02	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 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**420**		10		mg/L			08/26/21 03:40	1
Chloride	**53**		4.0		mg/L			09/10/21 15:30	2
Fluoride	**0.21**		0.10		mg/L			09/10/21 12:50	1
Sulfate	**46**		10		mg/L			09/16/21 14:40	2

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

Job ID: 500-204320-1

Client Sample ID: MW-01

Date Collected: 08/24/21 15:07
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:33	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		09/07/21 08:35	09/08/21 18:19	1
Arsenic	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:19	1
Barium	**0.061**		0.0025		mg/L		09/07/21 08:35	09/08/21 18:19	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:19	1
Boron	**0.27**		0.050		mg/L		09/07/21 08:35	09/08/21 18:19	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:19	1
Calcium	**99**		0.20		mg/L		09/07/21 08:35	09/08/21 18:19	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:19	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:19	1
Lead	**0.00088**		0.00050		mg/L		09/07/21 08:35	09/08/21 18:19	1
Molybdenum	**0.0070**		0.0050		mg/L		09/07/21 08:35	09/08/21 18:19	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:19	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:19	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 08:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**430**		10		mg/L			08/26/21 03:43	1
Chloride	**40**		4.0		mg/L			09/10/21 15:31	2
Fluoride	**0.18**		0.10		mg/L			09/10/21 12:59	1
Sulfate	**56**		25		mg/L			09/16/21 15:21	5

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

Job ID: 500-204320-1

Client Sample ID: MW-02

Date Collected: 08/24/21 13:32
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:37	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		09/07/21 08:35	09/08/21 18:23	1
Arsenic	**0.0014**		0.0010		mg/L		09/07/21 08:35	09/08/21 18:23	1
Barium	**0.073**		0.0025		mg/L		09/07/21 08:35	09/08/21 18:23	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:23	1
Boron	**0.63**		0.050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Calcium	**94**		0.20		mg/L		09/07/21 08:35	09/08/21 18:23	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:23	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:23	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:23	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:23	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 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**340**		10		mg/L			08/26/21 03:46	1
Chloride	**47**		4.0		mg/L			09/10/21 15:32	2
Fluoride	**0.17**		0.10		mg/L			09/10/21 13:02	1
Sulfate	**56**		25		mg/L			09/16/21 15:21	5

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

Job ID: 500-204320-1

Client Sample ID: Duplicate

Date Collected: 08/24/21 00:00
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:41	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		09/07/21 08:35	09/08/21 18:26	1
Arsenic	**0.0013**		0.0010		mg/L		09/07/21 08:35	09/08/21 18:26	1
Barium	**0.072**		0.0025		mg/L		09/07/21 08:35	09/08/21 18:26	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:26	1
Boron	**0.43**		0.050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Calcium	**81**		0.20		mg/L		09/07/21 08:35	09/08/21 18:26	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:26	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:26	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:26	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:26	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 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**440**		10		mg/L			08/26/21 03:48	1
Chloride	**48**		2.0		mg/L			09/10/21 15:32	1
Fluoride	**0.25**		0.10		mg/L			09/10/21 13:05	1
Sulfate	**33**		5.0		mg/L			09/16/21 15:24	1

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

Job ID: 500-204320-1

Client Sample ID: MW-03

Date Collected: 08/24/21 11:47
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:45	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		09/07/21 08:35	09/08/21 18:37	1
Arsenic	**0.0012**		0.0010		mg/L		09/07/21 08:35	09/08/21 18:37	1
Barium	**0.072**		0.0025		mg/L		09/07/21 08:35	09/08/21 18:37	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:37	1
Boron	**0.41**		0.050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Calcium	**81**		0.20		mg/L		09/07/21 08:35	09/08/21 18:37	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:37	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:37	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:37	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:37	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 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**310**		10		mg/L			08/26/21 03:51	1
Chloride	**46**		4.0		mg/L			09/10/21 15:32	2
Fluoride	**0.25**		0.10		mg/L			09/10/21 13:18	1
Sulfate	**32**		5.0		mg/L			09/16/21 15:15	1

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

Job ID: 500-204320-1

Client Sample ID: MW-04

Date Collected: 08/24/21 10:33
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 18:49	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		09/07/21 08:35	09/08/21 18:41	1
Arsenic	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:41	1
Barium	**0.024**		0.0025		mg/L		09/07/21 08:35	09/08/21 18:41	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:41	1
Boron	**0.72**		0.050		mg/L		09/07/21 08:35	09/08/21 18:41	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:41	1
Calcium	**78**		0.20		mg/L		09/07/21 08:35	09/08/21 18:41	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 18:41	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:41	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:41	1
Molybdenum	**0.014**		0.0050		mg/L		09/07/21 08:35	09/08/21 18:41	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:41	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:41	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 09:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**100**		10		mg/L			08/26/21 03:53	1
Chloride	**48**		4.0		mg/L			09/10/21 15:33	2
Fluoride	**0.34**		0.10		mg/L			09/10/21 13:22	1
Sulfate	**15**		5.0		mg/L			09/16/21 15:16	1

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

Job ID: 500-204320-1

Client Sample ID: MW-05

Date Collected: 08/24/21 09:22
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 19:01	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		09/07/21 08:35	09/08/21 18:44	1
Arsenic	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:44	1
Barium	**0.041**		0.0025		mg/L		09/07/21 08:35	09/08/21 18:44	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:44	1
Boron	**0.55**		0.050		mg/L		09/07/21 08:35	09/08/21 18:44	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:44	1
Calcium	**88**		0.20		mg/L		09/07/21 08:35	09/08/21 18:44	1
Chromium	**0.0070**		0.0050		mg/L		09/07/21 08:35	09/08/21 18:44	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 18:44	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 18:44	1
Molybdenum	**0.0073**		0.0050		mg/L		09/07/21 08:35	09/08/21 18:44	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 18:44	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 18:44	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 09:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**500**		10		mg/L			08/26/21 03:56	1
Chloride	**69**		10		mg/L			09/10/21 15:34	5
Fluoride	**0.32**		0.10		mg/L			09/10/21 13:25	1
Sulfate	**99**		25		mg/L			09/16/21 15:16	5

Definitions/Glossary

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

Job ID: 500-204320-1

Qualifiers

Metals

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.
¤	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

Metals

Prep Batch: 616696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	7470A	
500-204320-2	MW-01	Total/NA	Water	7470A	
500-204320-3	MW-02	Total/NA	Water	7470A	
500-204320-4	Duplicate	Total/NA	Water	7470A	
500-204320-5	MW-03	Total/NA	Water	7470A	
500-204320-6	MW-04	Total/NA	Water	7470A	
500-204320-7	MW-05	Total/NA	Water	7470A	
MB 500-616696/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-616696/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-204320-2 MS	MW-01	Total/NA	Water	7470A	
500-204320-2 MSD	MW-01	Total/NA	Water	7470A	
500-204320-2 DU	MW-01	Total/NA	Water	7470A	

Analysis Batch: 616923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	7470A	616696
500-204320-2	MW-01	Total/NA	Water	7470A	616696
500-204320-3	MW-02	Total/NA	Water	7470A	616696
500-204320-4	Duplicate	Total/NA	Water	7470A	616696
500-204320-5	MW-03	Total/NA	Water	7470A	616696
500-204320-6	MW-04	Total/NA	Water	7470A	616696
500-204320-7	MW-05	Total/NA	Water	7470A	616696
MB 500-616696/12-A	Method Blank	Total/NA	Water	7470A	616696
LCS 500-616696/13-A	Lab Control Sample	Total/NA	Water	7470A	616696
500-204320-2 MS	MW-01	Total/NA	Water	7470A	616696
500-204320-2 MSD	MW-01	Total/NA	Water	7470A	616696
500-204320-2 DU	MW-01	Total/NA	Water	7470A	616696

Prep Batch: 617441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total Recoverable	Water	3005A	
500-204320-2	MW-01	Total Recoverable	Water	3005A	
500-204320-3	MW-02	Total Recoverable	Water	3005A	
500-204320-4	Duplicate	Total Recoverable	Water	3005A	
500-204320-5	MW-03	Total Recoverable	Water	3005A	
500-204320-6	MW-04	Total Recoverable	Water	3005A	
500-204320-7	MW-05	Total Recoverable	Water	3005A	
MB 500-617441/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-617441/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-204320-1 MS	MW-10	Total Recoverable	Water	3005A	
500-204320-1 MSD	MW-10	Total Recoverable	Water	3005A	
500-204320-1 DU	MW-10	Total Recoverable	Water	3005A	

Analysis Batch: 617834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total Recoverable	Water	6010C	617441
500-204320-2	MW-01	Total Recoverable	Water	6010C	617441
500-204320-3	MW-02	Total Recoverable	Water	6010C	617441
500-204320-4	Duplicate	Total Recoverable	Water	6010C	617441
500-204320-5	MW-03	Total Recoverable	Water	6010C	617441
500-204320-6	MW-04	Total Recoverable	Water	6010C	617441

Metals (Continued)

Analysis Batch: 617834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-7	MW-05	Total Recoverable	Water	6010C	617441
MB 500-617441/1-A	Method Blank	Total Recoverable	Water	6010C	617441
LCS 500-617441/2-A	Lab Control Sample	Total Recoverable	Water	6010C	617441
500-204320-1 MS	MW-10	Total Recoverable	Water	6010C	617441
500-204320-1 MSD	MW-10	Total Recoverable	Water	6010C	617441
500-204320-1 DU	MW-10	Total Recoverable	Water	6010C	617441

Analysis Batch: 617878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total Recoverable	Water	6020A	617441
500-204320-2	MW-01	Total Recoverable	Water	6020A	617441
500-204320-3	MW-02	Total Recoverable	Water	6020A	617441
500-204320-4	Duplicate	Total Recoverable	Water	6020A	617441
500-204320-5	MW-03	Total Recoverable	Water	6020A	617441
500-204320-6	MW-04	Total Recoverable	Water	6020A	617441
500-204320-7	MW-05	Total Recoverable	Water	6020A	617441
MB 500-617441/1-A	Method Blank	Total Recoverable	Water	6020A	617441
LCS 500-617441/2-A	Lab Control Sample	Total Recoverable	Water	6020A	617441
500-204320-1 MS	MW-10	Total Recoverable	Water	6020A	617441
500-204320-1 MSD	MW-10	Total Recoverable	Water	6020A	617441
500-204320-1 DU	MW-10	Total Recoverable	Water	6020A	617441

General Chemistry

Analysis Batch: 615895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	SM 2540C	
500-204320-2	MW-01	Total/NA	Water	SM 2540C	
500-204320-3	MW-02	Total/NA	Water	SM 2540C	
500-204320-4	Duplicate	Total/NA	Water	SM 2540C	
500-204320-5	MW-03	Total/NA	Water	SM 2540C	
500-204320-6	MW-04	Total/NA	Water	SM 2540C	
500-204320-7	MW-05	Total/NA	Water	SM 2540C	
MB 500-615895/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-615895/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 618117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	SM 4500 F C	
500-204320-2	MW-01	Total/NA	Water	SM 4500 F C	
500-204320-3	MW-02	Total/NA	Water	SM 4500 F C	
500-204320-4	Duplicate	Total/NA	Water	SM 4500 F C	
500-204320-5	MW-03	Total/NA	Water	SM 4500 F C	
500-204320-6	MW-04	Total/NA	Water	SM 4500 F C	
500-204320-7	MW-05	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	
500-204320-1 MS	MW-10	Total/NA	Water	SM 4500 F C	
500-204320-1 MSD	MW-10	Total/NA	Water	SM 4500 F C	

General Chemistry

Analysis Batch: 618135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-204320-2	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-204320-3	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-204320-4	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-204320-5	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-204320-6	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-204320-7	MW-05	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	
500-204320-1 MS	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-204320-1 MSD	MW-10	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 618960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-204320-2	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-204320-3	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-204320-4	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-204320-5	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-204320-6	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-204320-7	MW-05	Total/NA	Water	SM 4500 SO4 E	
MB 500-618960/46	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-618960/85	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-618960/49	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-618960/90	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-204320-1 MS	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-204320-1 MSD	MW-10	Total/NA	Water	SM 4500 SO4 E	

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-617441/1-A
Matrix: Water
Analysis Batch: 617834

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		09/07/21 08:35	09/08/21 17:56	1

Lab Sample ID: LCS 500-617441/2-A
Matrix: Water
Analysis Batch: 617834

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.750	0.754		mg/L		101	80 - 120

Lab Sample ID: 500-204320-1 MS
Matrix: Water
Analysis Batch: 617834

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	<0.010		0.750	0.780		mg/L		104	75 - 125

Lab Sample ID: 500-204320-1 MSD
Matrix: Water
Analysis Batch: 617834

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	<0.010		0.750	0.735		mg/L		98	75 - 125	6	20

Lab Sample ID: 500-204320-1 DU
Matrix: Water
Analysis Batch: 617834

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.010		<0.010		mg/L		NC	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-617441/1-A
Matrix: Water
Analysis Batch: 617878

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		09/07/21 08:35	09/08/21 17:55	1
Arsenic	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 17:55	1
Barium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 17:55	1
Beryllium	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 17:55	1
Boron	<0.050		0.050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Cadmium	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Calcium	<0.20		0.20		mg/L		09/07/21 08:35	09/08/21 17:55	1
Chromium	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Cobalt	<0.0010		0.0010		mg/L		09/07/21 08:35	09/08/21 17:55	1
Lead	<0.00050		0.00050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Molybdenum	<0.0050		0.0050		mg/L		09/07/21 08:35	09/08/21 17:55	1
Selenium	<0.0025		0.0025		mg/L		09/07/21 08:35	09/08/21 17:55	1
Thallium	<0.0020		0.0020		mg/L		09/07/21 08:35	09/08/21 17:55	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: LCS 500-617441/2-A
Matrix: Water
Analysis Batch: 617878

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.750	0.780		mg/L		104	80 - 120
Arsenic	0.150	0.144		mg/L		96	80 - 120
Barium	3.00	2.97		mg/L		99	80 - 120
Beryllium	0.0750	0.0744		mg/L		99	80 - 120
Boron	1.50	1.40		mg/L		93	80 - 120
Cadmium	0.0750	0.0734		mg/L		98	80 - 120
Calcium	15.0	15.0		mg/L		100	80 - 120
Chromium	0.300	0.294		mg/L		98	80 - 120
Cobalt	0.750	0.745		mg/L		99	80 - 120
Lead	0.150	0.161		mg/L		108	80 - 120
Molybdenum	1.50	1.45		mg/L		97	80 - 120
Selenium	0.150	0.146		mg/L		97	80 - 120
Thallium	0.150	0.158		mg/L		105	80 - 120

Lab Sample ID: 500-204320-1 MS
Matrix: Water
Analysis Batch: 617878

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.750	0.795		mg/L		106	75 - 125
Arsenic	0.0017		0.150	0.149		mg/L		98	75 - 125
Barium	0.24		3.00	3.10		mg/L		95	75 - 125
Beryllium	<0.0010		0.0750	0.0688		mg/L		92	75 - 125
Boron	0.42		1.50	1.73		mg/L		87	75 - 125
Cadmium	<0.00050		0.0750	0.0727		mg/L		97	75 - 125
Calcium	98		15.0	107	4	mg/L		58	75 - 125
Chromium	<0.0050		0.300	0.283		mg/L		93	75 - 125
Cobalt	0.0082		0.750	0.702		mg/L		93	75 - 125
Lead	0.0020		0.150	0.158		mg/L		104	75 - 125
Molybdenum	<0.0050		1.50	1.49		mg/L		100	75 - 125
Selenium	0.0051		0.150	0.153		mg/L		98	75 - 125
Thallium	<0.0020		0.150	0.151		mg/L		101	75 - 125

Lab Sample ID: 500-204320-1 MSD
Matrix: Water
Analysis Batch: 617878

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0030		0.750	0.757		mg/L		101	75 - 125	5	20
Arsenic	0.0017		0.150	0.141		mg/L		93	75 - 125	6	20
Barium	0.24		3.00	2.94		mg/L		90	75 - 125	5	20
Beryllium	<0.0010		0.0750	0.0650		mg/L		87	75 - 125	6	20
Boron	0.42		1.50	1.67		mg/L		83	75 - 125	3	20
Cadmium	<0.00050		0.0750	0.0692		mg/L		92	75 - 125	5	20
Calcium	98		15.0	106	4	mg/L		53	75 - 125	1	20
Chromium	<0.0050		0.300	0.270		mg/L		89	75 - 125	5	20
Cobalt	0.0082		0.750	0.671		mg/L		88	75 - 125	5	20
Lead	0.0020		0.150	0.149		mg/L		98	75 - 125	6	20
Molybdenum	<0.0050		1.50	1.42		mg/L		95	75 - 125	5	20

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

Lab Sample ID: 500-204320-1 MSD
Matrix: Water
Analysis Batch: 617878

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	0.0051		0.150	0.145		mg/L		93	75 - 125	5	20
Thallium	<0.0020		0.150	0.145		mg/L		97	75 - 125	4	20

Lab Sample ID: 500-204320-1 DU
Matrix: Water
Analysis Batch: 617878

Client Sample ID: MW-10
Prep Type: Total Recoverable
Prep Batch: 617441

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0017		0.00163		mg/L		3	20
Barium	0.24		0.235		mg/L		3	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.42		0.413		mg/L		3	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	98		96.5		mg/L		1	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	0.0082		0.00795		mg/L		3	20
Lead	0.0020		0.00191		mg/L		5	20
Molybdenum	<0.0050		<0.0050		mg/L		NC	20
Selenium	0.0051		0.00495		mg/L		2	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-616696/12-A
Matrix: Water
Analysis Batch: 616923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 616696

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 08:29	1

Lab Sample ID: LCS 500-616696/13-A
Matrix: Water
Analysis Batch: 616923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 616696

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: 500-204320-2 MS
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 616696

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.00103		mg/L		103	75 - 125

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

Lab Sample ID: 500-204320-2 MSD
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 616696

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000988		mg/L		99	75 - 125	4	20

Lab Sample ID: 500-204320-2 DU
Matrix: Water
Analysis Batch: 616923

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 616696

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 500-615895/1
Matrix: Water
Analysis Batch: 615895

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			08/26/21 02:57	1

Lab Sample ID: LCS 500-615895/2
Matrix: Water
Analysis Batch: 615895

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids			250	264		mg/L		106	80 - 120		

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-618135/39
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		

Lab Sample ID: 500-204320-1 MS
Matrix: Water
Analysis Batch: 618135

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	53		20.0	70.7		mg/L		88	75 - 125		

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 500-204320-1 MSD — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 618135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	53		20.0	70.8		mg/L		89	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-618117/29 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 618117

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

Lab Sample ID: LCS 500-618117/30 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 618117

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

Lab Sample ID: 500-204320-1 MS — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 618117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.21		5.00	5.47		mg/L		105	75 - 125

Lab Sample ID: 500-204320-1 MSD — **Client Sample ID: MW-10**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 618117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.21		5.00	5.49		mg/L		106	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-618960/46 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 618960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			09/16/21 14:36	1

Lab Sample ID: MB 500-618960/85 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 618960

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

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

Lab Sample ID: LCS 500-618960/49
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	20.5		mg/L		103	88 - 123		

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: 500-204320-1 MS
Matrix: Water
Analysis Batch: 618960

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	46		20.0	66.5		mg/L		102	75 - 125		

Lab Sample ID: 500-204320-1 MSD
Matrix: Water
Analysis Batch: 618960

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	46		20.0	66.6		mg/L		103	75 - 125	0	20

TestAmerica Chicago
2417 Bond Street

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

Chain of Custody Record

500-204320 COC

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Rich Gnat	Site Contact: Mitchel Dolan	D	COC No
KPRG and Associates Inc	Tel/Fax: (262) 781-0475	Lab Contact: Diana Mockler	Carrier:	____ of ____ COCs
14665 West Lisbon Road Suite 1A	Analysis Turnaround Time			Sampler:
Brookfield WI 53154	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(262) 781-0475 Phone	TAT if different from Below ____			Walk-in Client
(262) 781-0478 FAX	☐ 2 weeks			Lab Sampling
Project Name Powerton FAB CCR	☐ 1 week			
Site Powerton Station - Pekin IL	☐ 2 days			Job / SDG No
P O # 4501908159	☐ 1 day			500-204320

	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	Sample Specific Notes
1	MW-10	8/24	16:20	G	W	7	N	N	X	X	X	X	X	X	X	
2	MW-01	8/24	15:07				N	N								
3	MW-02		13:32													
4	DUP		—													
5	MW-03		11:47													
6	MW-04		10:33													
7	MW-05		9:22													
									4	4	4	1	1	1	1	

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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 & 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

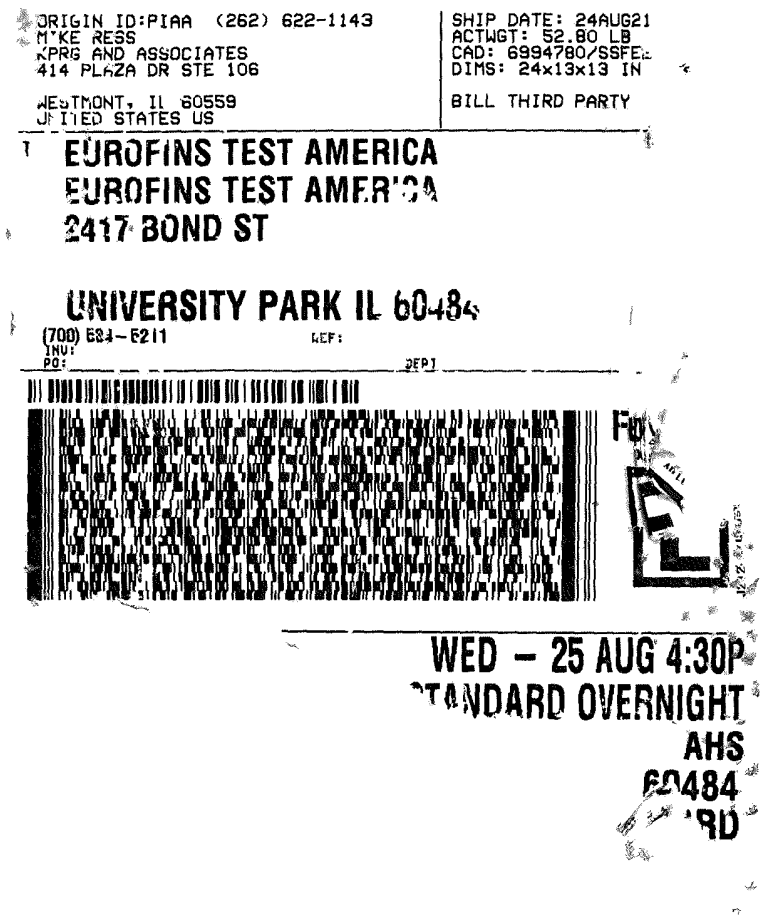
1679170 1679171 1679168 4.9, 10 8, 5.9

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No 1679172, 1679173	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by ~~Mitchel Dolan~~ Michael Dolan	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 Fleman	Company ETA CHI	Date/Time 8/25/21 1510

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

500-204320 Wayb

5.9



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

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 24AUG21
ACTWGT: 52.80 LB
CAD: 6994780/SSFE
DIMS: 24x13x13 IN

BILL THIRD PARTY

EUROFINS TEST AMERICA
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5211 REF:
INV:
PO: DEPT

WED - 25 AUG 4:30P
STANDARD OVERNIGHT
AHS
60484
BD

ID:PIAA (262) 622-1143
ESS
IND ASSOCIATES
AZA DR STE 106
ONT, IL 60559
ED STATES US

SHIP DATE: 24AUG21
ACTWGT: 52.80 LB
CAD: 6994780/SSFE2202
DIMS: 24x13x13 IN

BILL THIRD PARTY

TO EUROFINS TEST AMERICA
EUROFINS T
17 BOND
UNIVERSIT
(708) 534-6211
INV:
PO:

Part # 156297-[illegible] EXP 1/22

FedEx Express

2 of 4
MPS# 2829 3420 9413
Mstr# 2829 3420 9402

WED - 25 AUG 4:30P
STANDARD OVERNIGHT
AHS
60484
IL-US ORD

0263
0201

UF JOTA

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204320-1

Login Number: 204320
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	4.9,10.8,5.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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 FAB CCR

Job ID: 500-204320-1

Client Sample ID: MW-10

Date Collected: 08/24/21 16:20
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:12	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:02	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:40	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	618135	09/10/21 15:30	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 12:50	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	618960	09/16/21 14:40	RES	TAL CHI

Client Sample ID: MW-01

Date Collected: 08/24/21 15:07
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:33	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:19	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 08:54	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	618135	09/10/21 15:31	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 12:59	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:21	RES	TAL CHI

Client Sample ID: MW-02

Date Collected: 08/24/21 13:32
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:37	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:23	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:10	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:46	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	618135	09/10/21 15:32	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:21	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-204320-1

Client Sample ID: Duplicate

Date Collected: 08/24/21 00:00
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:41	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:26	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:13	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	618135	09/10/21 15:32	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	618960	09/16/21 15:24	RES	TAL CHI

Client Sample ID: MW-03

Date Collected: 08/24/21 11:47
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:45	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:37	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:15	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:51	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	618135	09/10/21 15:32	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:18	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	618960	09/16/21 15:15	RES	TAL CHI

Client Sample ID: MW-04

Date Collected: 08/24/21 10:33
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 18:49	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:41	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:53	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	618135	09/10/21 15:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:22	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	618960	09/16/21 15:16	RES	TAL CHI

Lab Chronicle

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

Job ID: 500-204320-1

Client Sample ID: MW-05

Date Collected: 08/24/21 09:22
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	617834	09/08/21 19:01	JJB	TAL CHI
Total Recoverable	Prep	3005A			617441	09/07/21 08:35	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	617878	09/08/21 18:44	FXG	TAL CHI
Total/NA	Prep	7470A			616696	08/31/21 09:35	MJG	TAL CHI
Total/NA	Analysis	7470A		1	616923	09/01/21 09:19	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	615895	08/26/21 03:56	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	618135	09/10/21 15:34	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	618117	09/10/21 13:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	618960	09/16/21 15:16	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 FAB CCR

Job ID: 500-204320-1

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

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-204320-2
Client Project/Site: Powerton FAB CCR

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

Attn: Richard Gnat

Diana Mockler

Authorized for release by:
9/25/2021 7:59:57 AM

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

Table of Contents

Case Narrative

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

Job ID: 500-204320-2

Job ID: 500-204320-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-204320-2

Comments
No additional comments.

Receipt
The samples were received on 8/25/2021 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 4.9º C, 5.9º C and 10.8º C.

Receipt Exceptions
The following sample(s) was received at the laboratory outside the required temperature criteria:sample #2 MW-01 and sample #3 MW-02 receiving cooler temp 10.8°C. Water present in sample

RAD
Method 903.0: Radium-226 Batch 525036

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-10 (500-204320-1), MW-01 (500-204320-2), MW-02 (500-204320-3), Duplicate (500-204320-4), MW-03 (500-204320-5), MW-04 (500-204320-6), MW-05 (500-204320-7), (LCS 160-525036/1-A), (MB 160-525036/25-A), (680-203279-D-7-C), (680-203279-E-7-A MS), (680-203279-D-7-D MSD) and (500-204320-F-4-A DU)

Method 904.0: Radium-228 Batch 525045

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-10 (500-204320-1), MW-01 (500-204320-2), MW-02 (500-204320-3), Duplicate (500-204320-4), MW-03 (500-204320-5), MW-04 (500-204320-6), MW-05 (500-204320-7), (LCS 160-525045/1-A), (MB 160-525045/25-A), (680-203279-D-7-E), (680-203279-E-7-C MS), (680-203279-D-7-F MSD) and (500-204320-F-4-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 FAB CCR

Job ID: 500-204320-2

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 FAB CCR

Job ID: 500-204320-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-204320-1	MW-10	Water	08/24/21 16:20	08/25/21 15:10
500-204320-2	MW-01	Water	08/24/21 15:07	08/25/21 15:10
500-204320-3	MW-02	Water	08/24/21 13:32	08/25/21 15:10
500-204320-4	Duplicate	Water	08/24/21 00:00	08/25/21 15:10
500-204320-5	MW-03	Water	08/24/21 11:47	08/25/21 15:10
500-204320-6	MW-04	Water	08/24/21 10:33	08/25/21 15:10
500-204320-7	MW-05	Water	08/24/21 09:22	08/25/21 15:10

Client Sample ID: MW-10

Date Collected: 08/24/21 16:20
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-1

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	0.280	U	0.293	0.294	1.00	0.469	pCi/L	09/01/21 09:36	09/23/21 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*40 - 110*	*09/01/21 09:36*	*09/23/21 08:13*	*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	0.358	U	0.365	0.366	1.00	0.593	pCi/L	09/01/21 11:11	09/22/21 13:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.7*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:47*	*1*
Y Carrier	*79.6*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:47*	*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	**0.638**		0.468	0.469	5.00	0.593	pCi/L		09/24/21 16:58	1

Client Sample ID: MW-01

Date Collected: 08/24/21 15:07
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-2

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	0.112	U	0.180	0.180	1.00	0.311	pCi/L	09/01/21 09:36	09/23/21 08:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*40 - 110*	*09/01/21 09:36*	*09/23/21 08:13*	*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	0.227	U	0.280	0.280	1.00	0.463	pCi/L	09/01/21 11:11	09/22/21 13:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.1*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*1*
Y Carrier	*81.9*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*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	0.340	U	0.333	0.333	5.00	0.463	pCi/L		09/24/21 16:58	1

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

Job ID: 500-204320-2

Client Sample ID: MW-02

Date Collected: 08/24/21 13:32
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-3

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	0.0757	U	0.180	0.180	1.00	0.324	pCi/L	09/01/21 09:36	09/23/21 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.3*		*40 - 110*	*09/01/21 09:36*	*09/23/21 08:14*	*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	0.142	U	0.277	0.277	1.00	0.470	pCi/L	09/01/21 11:11	09/22/21 13:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.3*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*1*
Y Carrier	*86.0*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*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	0.217	U	0.330	0.330	5.00	0.470	pCi/L		09/24/21 16:58	1

Client Sample ID: Duplicate

Date Collected: 08/24/21 00:00
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-4

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	0.323	U	0.233	0.235	1.00	0.342	pCi/L	09/01/21 09:36	09/23/21 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*40 - 110*	*09/01/21 09:36*	*09/23/21 08:14*	*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	0.0578	U	0.287	0.287	1.00	0.502	pCi/L	09/01/21 11:11	09/22/21 13:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*1*
Y Carrier	*76.3*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*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	0.381	U	0.370	0.371	5.00	0.502	pCi/L		09/24/21 16:58	1

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

Job ID: 500-204320-2

Client Sample ID: MW-03
Date Collected: 08/24/21 11:47
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-5
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	-0.0343	U	0.186	0.186	1.00	0.371	pCi/L	09/01/21 09:36	09/23/21 08:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*40 - 110*	*09/01/21 09:36*	*09/23/21 08:14*	*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	-0.0146	U	0.246	0.246	1.00	0.444	pCi/L	09/01/21 11:11	09/22/21 13:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*1*
Y Carrier	*80.7*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*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	-0.0489	U	0.308	0.308	5.00	0.444	pCi/L		09/24/21 16:58	1

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

Job ID: 500-204320-2

Client Sample ID: MW-04

Date Collected: 08/24/21 10:33
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-6

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	-0.241	U	0.109	0.111	1.00	0.337	pCi/L	09/01/21 09:36	09/23/21 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*40 - 110*	*09/01/21 09:36*	*09/23/21 08:15*	*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	0.304	U	0.267	0.268	1.00	0.427	pCi/L	09/01/21 11:11	09/22/21 13:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*1*
Y Carrier	*83.0*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*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	0.0625	U	0.288	0.290	5.00	0.427	pCi/L		09/24/21 16:58	1

Client Sample ID: MW-05

Date Collected: 08/24/21 09:22
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-7

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	0.0691	U	0.179	0.179	1.00	0.326	pCi/L	09/01/21 09:36	09/23/21 08:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*40 - 110*	*09/01/21 09:36*	*09/23/21 08:15*	*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	**0.794**		0.305	0.314	1.00	0.420	pCi/L	09/01/21 11:11	09/22/21 13:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.7*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*1*
Y Carrier	*86.7*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:48*	*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	**0.863**		0.354	0.361	5.00	0.420	pCi/L		09/24/21 16:58	1

Definitions/Glossary

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

Job ID: 500-204320-2

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.
¤	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

Rad

Prep Batch: 525036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	PrecSep-21	
500-204320-2	MW-01	Total/NA	Water	PrecSep-21	
500-204320-3	MW-02	Total/NA	Water	PrecSep-21	
500-204320-4	Duplicate	Total/NA	Water	PrecSep-21	
500-204320-5	MW-03	Total/NA	Water	PrecSep-21	
500-204320-6	MW-04	Total/NA	Water	PrecSep-21	
500-204320-7	MW-05	Total/NA	Water	PrecSep-21	
MB 160-525036/25-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-525036/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-204320-4 DU	Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 525045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-204320-1	MW-10	Total/NA	Water	PrecSep_0	
500-204320-2	MW-01	Total/NA	Water	PrecSep_0	
500-204320-3	MW-02	Total/NA	Water	PrecSep_0	
500-204320-4	Duplicate	Total/NA	Water	PrecSep_0	
500-204320-5	MW-03	Total/NA	Water	PrecSep_0	
500-204320-6	MW-04	Total/NA	Water	PrecSep_0	
500-204320-7	MW-05	Total/NA	Water	PrecSep_0	
MB 160-525045/25-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-525045/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-204320-4 DU	Duplicate	Total/NA	Water	PrecSep_0	

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-525036/25-A
Matrix: Water
Analysis Batch: 528519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525036

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1414	U	0.224	0.224	1.00	0.384	pCi/L	09/01/21 09:36	09/23/21 08:23	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*40 - 110*	*09/01/21 09:36*	*09/23/21 08:23*	*1*

Lab Sample ID: LCS 160-525036/1-A
Matrix: Water
Analysis Batch: 528517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525036

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-226			11.3	10.52		1.35	1.00	0.351	pCi/L	93	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*74.9*		*40 - 110*

Lab Sample ID: 500-204320-4 DU
Matrix: Water
Analysis Batch: 528517

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 525036

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.323	U		0.08322	U	0.197	1.00	0.353	pCi/L			0.56	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.0*		*40 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-525045/25-A
Matrix: Water
Analysis Batch: 528478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 525045

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2682	U	0.277	0.278	1.00	0.451	pCi/L	09/01/21 11:11	09/22/21 13:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.4*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:55*	*1*
Y Carrier	*87.1*		*40 - 110*	*09/01/21 11:11*	*09/22/21 13:55*	*1*

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

Lab Sample ID: LCS 160-525045/1-A
Matrix: Water
Analysis Batch: 528310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 525045

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Radium-228			9.31	8.923		1.14	1.00	0.551	pCi/L	96	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*74.9*		*40 - 110*
Y Carrier	*81.1*		*40 - 110*

Lab Sample ID: 500-204320-4 DU
Matrix: Water
Analysis Batch: 528310

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 525045

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.0578	U		0.2963	U	0.267	1.00	0.425	pCi/L			0.43	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*89.0*		*40 - 110*
Y Carrier	*81.9*		*40 - 110*

TestAmerica Chicago
2417 Bond Street

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

Chain of Custody Record

500-204320 COC

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

Client Contact	Project Manager: Rich Gnat	Site Contact: Mitchel Dolan	D	COC No
KPRG and Associates Inc	Tel/Fax: (262) 781-0475	Lab Contact: Diana Mockler	Carrier:	____ of ____ COCs
14665 West Lisbon Road Suite 1A	Analysis Turnaround Time			Sampler:
Brookfield WI 53154	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(262) 781-0475 Phone	TAT if different from Below ____			Walk-in Client
(262) 781-0478 FAX	☐ 2 weeks			Lab Sampling
Project Name Powerton FAB CCR	☐ 1 week			
Site Powerton Station - Pekin IL	☐ 2 days			Job / SDG No
P O # 4501908159	☐ 1 day			500-204320

	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	Sample Specific Notes
1	MW-10	8/24	16:20	G	W	7	N	N	X	X	X	X	X	X	X	
2	MW-01	8/24	15:07				N	N								
3	MW-02		13:32													
4	DUP		—													
5	MW-03		11:47													
6	MW-04		10:33													
7	MW-05		9:22													
									4	4	4	1	1	1	1	

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

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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 & 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

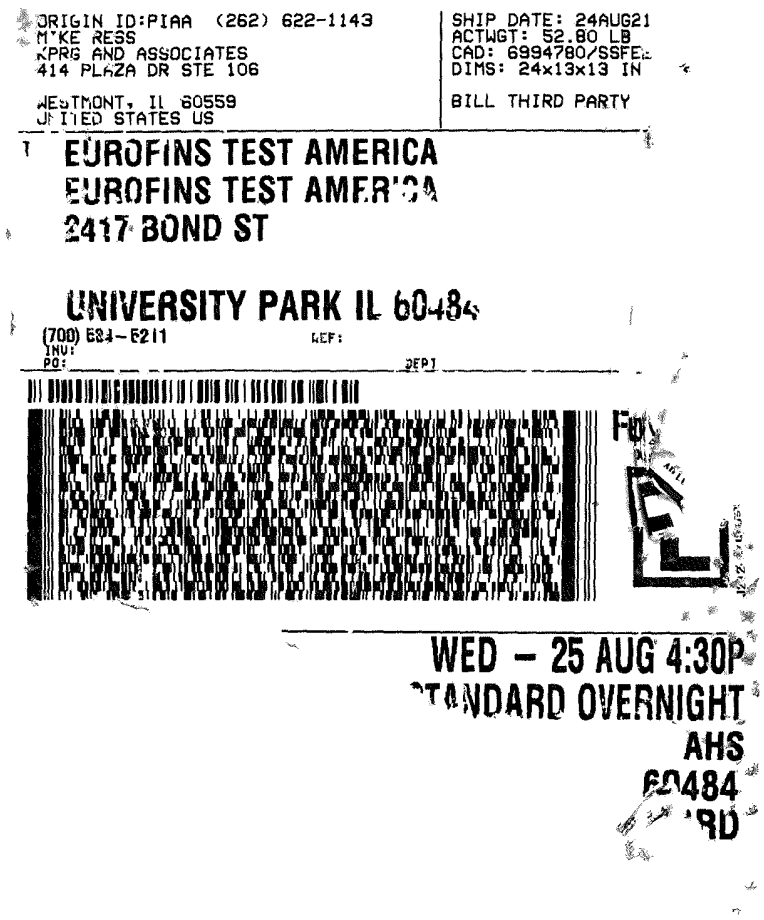
1679170 1679171 1679168 4.9, 10 8, 5.9

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No 1679172, 1679173	Cooler Temp (°C) Obs'd _____ Corr'd _____ Therm ID No _____		
Relinquished by ~~Mitchel Dolan~~ Michael Dolan	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 Fleman	Company ETA CHI	Date/Time 8/25/21 15:10

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

5.9

500-204320 Wayb


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

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 24AUG21
ACTWGT: 52.80 LB
CAD: 6994780/SSFE
DIMS: 24x13x13 IN

BILL THIRD PARTY

EUROFINS TEST AMERICA
EUROFINS TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5211 REF:
INV:
PO: DEPT

WED - 25 AUG 4:30P
STANDARD OVERNIGHT
AHS
60484
BD

ID:PIAA (262) 622-1143
ESS
IND ASSOCIATES
AZA DR STE 106
ONT, IL 60559
ED STATES US

SHIP DATE: 24AUG21
ACTWGT: 52.80 LB
CAD: 6994780/SSFE2202
DIMS: 24x13x13 IN

BILL THIRD PARTY

Part # 156297-[illegible] REV [illegible] EXP 04/22

TO EUROFINS TEST AMERICA
EUROFINS T
17 BOND
UNIVERSIT
(708) 534-6211
INV:
PO:

FedEx Express

2 of 4
MPS# 2829 3420 9413
Mstr# 2829 3420 9402

WED - 25 AUG 4:30P
STANDARD OVERNIGHT
AHS
60484
IL-US ORD

0263
0201

UF JOTA

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No: 500-151935.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Diana.Mockler@Eurofinset.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-204320-2
Address: 13715 Rider Trail North,	Due Date Requested: 9/26/2021			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: Powerton FAB CCR	Project #: 50011612			
Site: MWG - Powerton	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra226Ra228_GFPC	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-10 (500-204320-1)	8/24/21	16:20 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-01 (500-204320-2)	8/24/21	15:07 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-02 (500-204320-3)	8/24/21	13:32 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
Duplicate (500-204320-4)	8/24/21	Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-03 (500-204320-5)	8/24/21	11:47 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-04 (500-204320-6)	8/24/21	10:33 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs
MW-05 (500-204320-7)	8/24/21	09:22 Central		Water			X	X	X	3	Full QC needed (dups, etc) Batch QC must be performed (dup, spikes, etc) - no NCMs

Note: Since laboratory accreditations are subject to change, Eurofins 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/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

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) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Stephanie Hernandez FED EX	Date/Time: 8/26/21 1630	Company: EA-CHI	Received by: FED EX
Relinquished by:	Date/Time:	Company	Received by: Micha Kemminger
Relinquished by:	Date/Time:	Company	Received by:

Date/Time:	Company
Date/Time: AUG 26 2021 10:15	Company: EA SDL
Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-204320-2

Login Number: 204320
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	4.9,10.8,5.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <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: 500-204320-2

Login Number: 204320
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 </= 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 FAB CCR

Job ID: 500-204320-2

Client Sample ID: MW-10
Date Collected: 08/24/21 16:20
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:13	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:47	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

Client Sample ID: MW-01
Date Collected: 08/24/21 15:07
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:13	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

Client Sample ID: MW-02
Date Collected: 08/24/21 13:32
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:14	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

Client Sample ID: Duplicate
Date Collected: 08/24/21 00:00
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:14	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

Lab Chronicle

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

Job ID: 500-204320-2

Client Sample ID: MW-03

Date Collected: 08/24/21 11:47
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:14	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

Client Sample ID: MW-04

Date Collected: 08/24/21 10:33
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:15	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	FLC	TAL SL

Client Sample ID: MW-05

Date Collected: 08/24/21 09:22
Date Received: 08/25/21 15:10

Lab Sample ID: 500-204320-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			525036	09/01/21 09:36	MJ	TAL SL
Total/NA	Analysis	903.0		1	528517	09/23/21 08:15	ANW	TAL SL
Total/NA	Prep	PrecSep_0			525045	09/01/21 11:11	MJ	TAL SL
Total/NA	Analysis	904.0		1	528310	09/22/21 13:48	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	528867	09/24/21 16:58	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 FAB CCR

Job ID: 500-204320-2

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

Tracer/Carrier Summary

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

Job ID: 500-204320-2

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)
500-204320-1	MW-10	86.7
500-204320-2	MW-01	92.1
500-204320-3	MW-02	92.3
500-204320-4	Duplicate	91.6
500-204320-4 DU	Duplicate	89.0
500-204320-5	MW-03	92.6
500-204320-6	MW-04	91.8
500-204320-7	MW-05	84.7
LCS 160-525036/1-A	Lab Control Sample	74.9
MB 160-525036/25-A	Method Blank	84.4

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)
500-204320-1	MW-10	86.7	79.6
500-204320-2	MW-01	92.1	81.9
500-204320-3	MW-02	92.3	86.0
500-204320-4	Duplicate	91.6	76.3
500-204320-4 DU	Duplicate	89.0	81.9
500-204320-5	MW-03	92.6	80.7
500-204320-6	MW-04	91.8	83.0
500-204320-7	MW-05	84.7	86.7
LCS 160-525045/1-A	Lab Control Sample	74.9	81.1
MB 160-525045/25-A	Method Blank	84.4	87.1

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 500-209156-1
Client Project/Site: Powerton CCR FAB

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

Attn: Richard Gnat

Diana Mockler

Authorized for release by:
12/21/2021 12:32:44 PM

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

Table of Contents

Job ID: 500-209156-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-209156-1

Comments
No additional comments.

Receipt
The samples were received on 12/2/2021 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7º C and 5.8º C.

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 (500-209156-1), MW-02 (500-209156-2), MW-03 (500-209156-3), MW-04 (500-209156-4), MW-05 (500-209156-5), MW-10 (500-209156-6) and Duplicate (500-209156-7). 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 FAB

Job ID: 500-209156-1

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 FAB

Job ID: 500-209156-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209156-1	MW-01	Water	11/30/21 11:15	12/02/21 10:25
500-209156-2	MW-02	Water	11/30/21 08:48	12/02/21 10:25
500-209156-3	MW-03	Water	11/30/21 09:51	12/02/21 10:25
500-209156-4	MW-04	Water	11/30/21 10:47	12/02/21 10:25
500-209156-5	MW-05	Water	11/30/21 11:40	12/02/21 10:25
500-209156-6	MW-10	Water	11/30/21 10:12	12/02/21 10:25
500-209156-7	Duplicate	Water	11/30/21 00:00	12/02/21 10:25

Client Sample Results

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

Job ID: 500-209156-1

Client Sample ID: MW-01

Date Collected: 11/30/21 11:15
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:06	12/16/21 12:40	1
Arsenic	**0.0010**		0.0010		mg/L		12/15/21 10:06	12/16/21 12:40	1
Barium	**0.052**		0.0025		mg/L		12/15/21 10:06	12/16/21 12:40	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:40	1
Boron	**0.35**		0.050		mg/L		12/15/21 10:06	12/16/21 12:40	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:40	1
Calcium	**84**		0.20		mg/L		12/15/21 10:06	12/16/21 12:40	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:40	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:40	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:40	1
Lithium	**0.0038**		0.0020		mg/L		12/15/21 10:06	12/16/21 12:40	1
Molybdenum	**0.0068**		0.0050		mg/L		12/15/21 10:06	12/16/21 12:40	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 12:40	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 12:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/07/21 10:05	12/08/21 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**400**		10		mg/L			12/07/21 05:04	1
Chloride	**41**		6.0		mg/L			12/07/21 15:59	3
Fluoride	**0.19**		0.10		mg/L			12/20/21 16:47	1
Sulfate	**28**	**^-**	5.0		mg/L			12/07/21 17:22	1

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

Job ID: 500-209156-1

Client Sample ID: MW-02

Date Collected: 11/30/21 08:48
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:06	12/16/21 12:44	1
Arsenic	**0.0017**		0.0010		mg/L		12/15/21 10:06	12/16/21 12:44	1
Barium	**0.065**		0.0025		mg/L		12/15/21 10:06	12/16/21 12:44	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:44	1
Boron	**0.22**		0.050		mg/L		12/15/21 10:06	12/16/21 12:44	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:44	1
Calcium	**87**		0.20		mg/L		12/15/21 10:06	12/16/21 12:44	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:44	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:44	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:44	1
Lithium	**0.0045**		0.0020		mg/L		12/15/21 10:06	12/16/21 12:44	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:44	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 12:44	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 12:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/07/21 10:05	12/08/21 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**380**		10		mg/L			12/07/21 05:06	1
Chloride	**41**		6.0		mg/L			12/07/21 15:41	3
Fluoride	**0.14**		0.10		mg/L			12/20/21 17:00	1
Sulfate	**36**	**^-**	5.0		mg/L			12/07/21 17:22	1

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

Job ID: 500-209156-1

Client Sample ID: MW-03

Date Collected: 11/30/21 09:51
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-3

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 10:06	12/16/21 12:47	1
Arsenic	**0.0014**		0.0010		mg/L		12/15/21 10:06	12/16/21 12:47	1
Barium	**0.063**		0.0025		mg/L		12/15/21 10:06	12/16/21 12:47	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:47	1
Boron	**0.30**		0.050		mg/L		12/15/21 10:06	12/16/21 12:47	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:47	1
Calcium	**76**		0.20		mg/L		12/15/21 10:06	12/16/21 12:47	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:47	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:47	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:47	1
Lithium	**0.0040**		0.0020		mg/L		12/15/21 10:06	12/16/21 12:47	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:47	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 12:47	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 12:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/07/21 10:05	12/08/21 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**350**		10		mg/L			12/07/21 05:09	1
Chloride	**47**		6.0		mg/L			12/07/21 15:41	3
Fluoride	**0.26**		0.10		mg/L			12/20/21 17:03	1
Sulfate	**23**	**^-**	5.0		mg/L			12/07/21 17:22	1

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

Job ID: 500-209156-1

Client Sample ID: MW-04

Date Collected: 11/30/21 10:47
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:06	12/16/21 12:51	1
Arsenic	**0.0012**		0.0010		mg/L		12/15/21 10:06	12/16/21 12:51	1
Barium	**0.035**		0.0025		mg/L		12/15/21 10:06	12/16/21 12:51	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:51	1
Boron	**0.51**		0.050		mg/L		12/15/21 10:06	12/16/21 12:51	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:51	1
Calcium	**99**		0.20		mg/L		12/15/21 10:06	12/16/21 12:51	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:51	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:51	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:51	1
Lithium	**0.0035**		0.0020		mg/L		12/15/21 10:06	12/16/21 12:51	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:51	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 12:51	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 12:51	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/07/21 10:05	12/08/21 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**560**		10		mg/L			12/07/21 05:12	1
Chloride	**56**		6.0		mg/L			12/07/21 15:41	3
Fluoride	**0.25**		0.10		mg/L			12/20/21 17:06	1
Sulfate	**62**	**^-**	15		mg/L			12/07/21 17:23	3

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

Job ID: 500-209156-1

Client Sample ID: MW-05

Date Collected: 11/30/21 11:40
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:06	12/16/21 12:54	1
Arsenic	**0.0011**		0.0010		mg/L		12/15/21 10:06	12/16/21 12:54	1
Barium	**0.048**		0.0025		mg/L		12/15/21 10:06	12/16/21 12:54	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:54	1
Boron	**0.68**		0.050		mg/L		12/15/21 10:06	12/16/21 12:54	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:54	1
Calcium	**99**		0.20		mg/L		12/15/21 10:06	12/16/21 12:54	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:54	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:54	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:54	1
Lithium	**0.0052**		0.0020		mg/L		12/15/21 10:06	12/16/21 12:54	1
Molybdenum	**0.0051**		0.0050		mg/L		12/15/21 10:06	12/16/21 12:54	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 12:54	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 12:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/07/21 10:05	12/08/21 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**620**		10		mg/L			12/07/21 05:14	1
Chloride	**67**		6.0		mg/L			12/07/21 15:42	3
Fluoride	**0.30**		0.10		mg/L			12/20/21 17:10	1
Sulfate	**92**	**^-**	15		mg/L			12/07/21 17:23	3

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

Job ID: 500-209156-1

Client Sample ID: MW-10

Date Collected: 11/30/21 10:12
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-6

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 10:06	12/16/21 12:58	1
Arsenic	**0.0015**		0.0010		mg/L		12/15/21 10:06	12/16/21 12:58	1
Barium	**0.20**		0.0025		mg/L		12/15/21 10:06	12/16/21 12:58	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 12:58	1
Boron	**0.42**		0.050		mg/L		12/15/21 10:06	12/16/21 12:58	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 12:58	1
Calcium	**100**		0.20		mg/L		12/15/21 10:06	12/16/21 12:58	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:58	1
Cobalt	**0.0037**		0.0010		mg/L		12/15/21 10:06	12/16/21 12:58	1
Lead	**0.00051**		0.00050		mg/L		12/15/21 10:06	12/16/21 12:58	1
Lithium	**0.0031**		0.0020		mg/L		12/15/21 10:06	12/16/21 12:58	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 12:58	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 12:58	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 12:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/07/21 10:05	12/08/21 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**530**		10		mg/L			12/07/21 05:17	1
Chloride	**47**		6.0		mg/L			12/07/21 15:42	3
Fluoride	**0.19**		0.10		mg/L			12/20/21 17:13	1
Sulfate	**36**	**^-**	5.0		mg/L			12/07/21 17:23	1

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

Job ID: 500-209156-1

Client Sample ID: Duplicate

Date Collected: 11/30/21 00:00
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-7

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 10:06	12/16/21 13:01	1
Arsenic	**0.0015**		0.0010		mg/L		12/15/21 10:06	12/16/21 13:01	1
Barium	**0.20**		0.0025		mg/L		12/15/21 10:06	12/16/21 13:01	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 13:01	1
Boron	**0.41**		0.050		mg/L		12/15/21 10:06	12/16/21 13:01	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 13:01	1
Calcium	**100**		0.20		mg/L		12/15/21 10:06	12/16/21 13:01	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 13:01	1
Cobalt	**0.0033**		0.0010		mg/L		12/15/21 10:06	12/16/21 13:01	1
Lead	**0.00054**		0.00050		mg/L		12/15/21 10:06	12/16/21 13:01	1
Lithium	**0.0029**		0.0020		mg/L		12/15/21 10:06	12/16/21 13:01	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 13:01	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 13:01	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 13:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/07/21 10:05	12/08/21 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**500**		10		mg/L			12/06/21 03:12	1
Chloride	**46**		6.0		mg/L			12/07/21 15:43	3
Fluoride	**0.19**		0.10		mg/L			12/20/21 17:17	1
Sulfate	**36**	**^-**	5.0		mg/L			12/07/21 17:23	1

Definitions/Glossary

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

Job ID: 500-209156-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
^-	Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

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

Metals

Prep Batch: 632458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-1	MW-01	Total/NA	Water	7470A	
500-209156-2	MW-02	Total/NA	Water	7470A	
500-209156-3	MW-03	Total/NA	Water	7470A	
500-209156-4	MW-04	Total/NA	Water	7470A	
500-209156-5	MW-05	Total/NA	Water	7470A	
500-209156-6	MW-10	Total/NA	Water	7470A	
500-209156-7	Duplicate	Total/NA	Water	7470A	
MB 500-632458/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-632458/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-209156-3 MS	MW-03	Total/NA	Water	7470A	
500-209156-3 MSD	MW-03	Total/NA	Water	7470A	
500-209156-3 DU	MW-03	Total/NA	Water	7470A	

Analysis Batch: 632735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-1	MW-01	Total/NA	Water	7470A	632458
500-209156-2	MW-02	Total/NA	Water	7470A	632458
500-209156-3	MW-03	Total/NA	Water	7470A	632458
500-209156-4	MW-04	Total/NA	Water	7470A	632458
500-209156-5	MW-05	Total/NA	Water	7470A	632458
500-209156-6	MW-10	Total/NA	Water	7470A	632458
500-209156-7	Duplicate	Total/NA	Water	7470A	632458
MB 500-632458/12-A	Method Blank	Total/NA	Water	7470A	632458
LCS 500-632458/13-A	Lab Control Sample	Total/NA	Water	7470A	632458
500-209156-3 MS	MW-03	Total/NA	Water	7470A	632458
500-209156-3 MSD	MW-03	Total/NA	Water	7470A	632458
500-209156-3 DU	MW-03	Total/NA	Water	7470A	632458

Prep Batch: 633814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-1	MW-01	Total Recoverable	Water	3005A	
500-209156-2	MW-02	Total Recoverable	Water	3005A	
500-209156-3	MW-03	Total Recoverable	Water	3005A	
500-209156-4	MW-04	Total Recoverable	Water	3005A	
500-209156-5	MW-05	Total Recoverable	Water	3005A	
500-209156-6	MW-10	Total Recoverable	Water	3005A	
500-209156-7	Duplicate	Total Recoverable	Water	3005A	
MB 500-633814/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-633814/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 634096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-1	MW-01	Total Recoverable	Water	6020A	633814
500-209156-2	MW-02	Total Recoverable	Water	6020A	633814
500-209156-3	MW-03	Total Recoverable	Water	6020A	633814
500-209156-4	MW-04	Total Recoverable	Water	6020A	633814
500-209156-5	MW-05	Total Recoverable	Water	6020A	633814
500-209156-6	MW-10	Total Recoverable	Water	6020A	633814
500-209156-7	Duplicate	Total Recoverable	Water	6020A	633814
MB 500-633814/1-A	Method Blank	Total Recoverable	Water	6020A	633814
LCS 500-633814/2-A	Lab Control Sample	Total Recoverable	Water	6020A	633814

General Chemistry

Analysis Batch: 632165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-7	Duplicate	Total/NA	Water	SM 2540C	
MB 500-632165/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-632165/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 632355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-1	MW-01	Total/NA	Water	SM 2540C	
500-209156-2	MW-02	Total/NA	Water	SM 2540C	
500-209156-3	MW-03	Total/NA	Water	SM 2540C	
500-209156-4	MW-04	Total/NA	Water	SM 2540C	
500-209156-5	MW-05	Total/NA	Water	SM 2540C	
500-209156-6	MW-10	Total/NA	Water	SM 2540C	
MB 500-632355/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-632355/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 632730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-209156-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-209156-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-209156-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-209156-5	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-209156-6	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-209156-7	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-632730/138	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-632730/139	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 632731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-209156-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-209156-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-209156-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-209156-5	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-209156-6	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-209156-7	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-632731/82	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-632731/83	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 634708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209156-1	MW-01	Total/NA	Water	SM 4500 F C	
500-209156-2	MW-02	Total/NA	Water	SM 4500 F C	
500-209156-3	MW-03	Total/NA	Water	SM 4500 F C	
500-209156-4	MW-04	Total/NA	Water	SM 4500 F C	
500-209156-5	MW-05	Total/NA	Water	SM 4500 F C	
500-209156-6	MW-10	Total/NA	Water	SM 4500 F C	
500-209156-7	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-634708/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-634708/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-633814/1-A
Matrix: Water
Analysis Batch: 634096

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 633814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/15/21 10:06	12/16/21 11:46	1
Arsenic	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 11:46	1
Barium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 11:46	1
Beryllium	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 11:46	1
Boron	<0.050		0.050		mg/L		12/15/21 10:06	12/16/21 11:46	1
Cadmium	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 11:46	1
Calcium	<0.20		0.20		mg/L		12/15/21 10:06	12/16/21 11:46	1
Chromium	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 11:46	1
Cobalt	<0.0010		0.0010		mg/L		12/15/21 10:06	12/16/21 11:46	1
Lead	<0.00050		0.00050		mg/L		12/15/21 10:06	12/16/21 11:46	1
Lithium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 11:46	1
Molybdenum	<0.0050		0.0050		mg/L		12/15/21 10:06	12/16/21 11:46	1
Selenium	<0.0025		0.0025		mg/L		12/15/21 10:06	12/16/21 11:46	1
Thallium	<0.0020		0.0020		mg/L		12/15/21 10:06	12/16/21 11:46	1

Lab Sample ID: LCS 500-633814/2-A
Matrix: Water
Analysis Batch: 634096

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 633814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.521		mg/L		104	80 - 120
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	2.00	2.10		mg/L		105	80 - 120
Beryllium	0.0500	0.0524		mg/L		105	80 - 120
Boron	1.00	1.04		mg/L		104	80 - 120
Cadmium	0.0500	0.0517		mg/L		103	80 - 120
Calcium	10.0	9.96		mg/L		100	80 - 120
Chromium	0.200	0.212		mg/L		106	80 - 120
Cobalt	0.500	0.523		mg/L		105	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Lithium	0.500	0.537		mg/L		107	80 - 120
Molybdenum	1.00	1.02		mg/L		102	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Thallium	0.100	0.112		mg/L		112	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-632458/12-A
Matrix: Water
Analysis Batch: 632735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 632458

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/07/21 10:05	12/08/21 08:12	1

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

Lab Sample ID: LCS 500-632458/13-A
Matrix: Water
Analysis Batch: 632735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 632458

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

Lab Sample ID: 500-209156-3 MS
Matrix: Water
Analysis Batch: 632735

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 632458

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.00020		0.00100	0.00112		mg/L		112	75 - 125		

Lab Sample ID: 500-209156-3 MSD
Matrix: Water
Analysis Batch: 632735

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 632458

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	10	20

Lab Sample ID: 500-209156-3 DU
Matrix: Water
Analysis Batch: 632735

Client Sample ID: MW-03
Prep Type: Total/NA
Prep Batch: 632458

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 500-632165/1
Matrix: Water
Analysis Batch: 632165

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			12/06/21 02:18	1

Lab Sample ID: LCS 500-632165/2
Matrix: Water
Analysis Batch: 632165

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	256		mg/L		102	80 - 120		

Lab Sample ID: MB 500-632355/1
Matrix: Water
Analysis Batch: 632355

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 04:41	1

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

Lab Sample ID: LCS 500-632355/2
Matrix: Water
Analysis Batch: 632355

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	250		mg/L		100	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-632730/138
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 15:35	1

Lab Sample ID: LCS 500-632730/139
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	20.6		mg/L		103	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-634708/3
Matrix: Water
Analysis Batch: 634708

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			12/20/21 16:19	1

Lab Sample ID: LCS 500-634708/4
Matrix: Water
Analysis Batch: 634708

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	10.9		mg/L		109	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-632731/82
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 17:17	1

Lab Sample ID: LCS 500-632731/83
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	20.7	^-	mg/L		104	88 - 123

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

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Mitchel Dolan	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500-96732-42690 1
Client Contact: Mitchel Dolan	Phone: 262-622-1143	E Mail: Diana Mockler@Eurofinset.com	State of Origin: IL	Page: Page 1 of 1
Company: KPRG and Associates Inc	PWSID:			Job #: 500-209156

Address: 14665 West Lisbon Road Suite 1A	Due Date Requested:	Analysis Requested
City: Brookfield	TAT Requested (days):	
State Zip: WI 53005	Compliance Project: Δ Yes Δ No	
Phone: 262-781-0475(Tel)	PO #: 4502051132	
Email: mitcheld@kprginc com	WO #:	
Project Name: Powerton CCR FAB	Project #: 50011612	
Site: Illinois	SSOW#:	

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:

500-209156 COC

	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 - Standard Target List	Ra226Ra228_GFPC - Local Method	904.0 - Standard Target List	6010C, 6020A, 7470A	2540C, 4500_F_C, SM4500_Cl_E, SM4500_SO4_E	Total Number of containers	Special Instructions/Note
				Preservation Code:				D	D	D	D	N		
1	MW-01	11/30/21	1115	G	Water			X	X	X	X	X		
2	MW-02		0849	G	Water			X	X	X	X	X		
3	MW-03		0951	G	Water			X	X	X	X	X		
4	MW-04		1047	G	Water			X	X	X	X	X		
5	MW-05		1140	G	Water			X	X	X	X	X		
6	MW-10		1012	G	Water			X	X	X	X	X		
7	Duplicate		-	G	Water			X	X	X	X	X		

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

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

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Mitchel Dolan	11/30/21 / 1300	KPRG	FEDEX	11/30/21 / 1300	FEDEX
2				Stephanie Hernandez	12/2/21 1025	ETA-CHI
3						

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 5.8, 1.7

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 30NOV21
ACTWGT: 42.50 LB
CAD: 6994779/SSFE2220
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-435 RRDW2 EXP 04/22

TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

5.8

UNIVERSITY PARK IL 60484

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

FedEx Express

2 of 4

MPS# 0263 **2868 3527 8401**

Mstr# 2868 3527 8397 0201

THU - 02 DEC 4:30F
**** 2DAY ****

TT JOTA

60484
IL-US **ORD**

ORIGIN ID:PIAA (000) 000-0000

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 30NOV21
ACTWGT: 42.50 LB
CAD: 6994779/SSFE2220
DIMS: 24x18x12 IN

BILL THIRD PARTY

Part # 156297-435 RRDW2 EXP 04/22

TO **SAMPLE RECEIVING**
EUROFINS
2417 BOND ST

500-209156 Wayb

UNIVERSITY PARK IL 60484

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

FedEx Express

4 of 4

MPS# 0263 **2868 3527 8423**

Mstr# 2868 3527 8397 0201

THU - 02 DEC 4:30F
**** 2DAY ****

TT JOTA

60484
IL-US **ORD**

1.7

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-209156-1

Login Number: 209156
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.8,1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-209156-1

Client Sample ID: MW-01
Date Collected: 11/30/21 11:15
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633814	12/15/21 10:06	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634096	12/16/21 12:40	FXG	TAL CHI
Total/NA	Prep	7470A			632458	12/07/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	632735	12/08/21 08:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632355	12/07/21 05:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	632730	12/07/21 15:59	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 16:47	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	632731	12/07/21 17:22	RES	TAL CHI

Client Sample ID: MW-02
Date Collected: 11/30/21 08:48
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633814	12/15/21 10:06	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634096	12/16/21 12:44	FXG	TAL CHI
Total/NA	Prep	7470A			632458	12/07/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	632735	12/08/21 08:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632355	12/07/21 05:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	632730	12/07/21 15:41	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:00	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	632731	12/07/21 17:22	RES	TAL CHI

Client Sample ID: MW-03
Date Collected: 11/30/21 09:51
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633814	12/15/21 10:06	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634096	12/16/21 12:47	FXG	TAL CHI
Total/NA	Prep	7470A			632458	12/07/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	632735	12/08/21 09:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632355	12/07/21 05:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	632730	12/07/21 15:41	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:03	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	632731	12/07/21 17:22	RES	TAL CHI

Client Sample ID: MW-04
Date Collected: 11/30/21 10:47
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633814	12/15/21 10:06	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634096	12/16/21 12:51	FXG	TAL CHI

Lab Chronicle

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

Job ID: 500-209156-1

Client Sample ID: MW-04
Date Collected: 11/30/21 10:47
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			632458	12/07/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	632735	12/08/21 10:05	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632355	12/07/21 05:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	632730	12/07/21 15:41	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:06	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	632731	12/07/21 17:23	RES	TAL CHI

Client Sample ID: MW-05
Date Collected: 11/30/21 11:40
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633814	12/15/21 10:06	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634096	12/16/21 12:54	FXG	TAL CHI
Total/NA	Prep	7470A			632458	12/07/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	632735	12/08/21 10:07	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632355	12/07/21 05:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	632730	12/07/21 15:42	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:10	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	632731	12/07/21 17:23	RES	TAL CHI

Client Sample ID: MW-10
Date Collected: 11/30/21 10:12
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633814	12/15/21 10:06	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634096	12/16/21 12:58	FXG	TAL CHI
Total/NA	Prep	7470A			632458	12/07/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	632735	12/08/21 10:09	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	632355	12/07/21 05:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	632730	12/07/21 15:42	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:13	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	632731	12/07/21 17:23	RES	TAL CHI

Client Sample ID: Duplicate
Date Collected: 11/30/21 00:00
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			633814	12/15/21 10:06	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	634096	12/16/21 13:01	FXG	TAL CHI
Total/NA	Prep	7470A			632458	12/07/21 10:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	632735	12/08/21 10:11	MJG	TAL CHI

Lab Chronicle

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

Job ID: 500-209156-1

Client Sample ID: Duplicate

Date Collected: 11/30/21 00:00
Date Received: 12/02/21 10:25

Lab Sample ID: 500-209156-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	632165	12/06/21 03:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	632730	12/07/21 15:43	RES	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	634708	12/20/21 17:17	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	632731	12/07/21 17:23	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 FAB

Job ID: 500-209156-1

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