



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**FEDERAL CCR COMPLIANCE
ANNUAL GROUNDWATER MONITORING and
CORRECTIVE ACTION REPORT - 2022**

**Midwest Generation, LLC
Will County
259 E. 135th Street
Romeoville, Illinois**

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January 31, 2023

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OVERVIEW

Groundwater monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) and subsequent amendments, have been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Will County Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for Ash Ponds 2 South (2S) and 3 South (3S). The CCR monitoring well network around these ponds consists of six monitoring wells (MW-05, MW-06, MW-09, MW-10, MW-11 and MW-12) as shown on Figure 1. Wells MW-05 and MW-06 are upgradient wells.

This overview of the 2022 groundwater monitoring period is provided in accordance with 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 detection monitoring program outlined in Section 257.94.
- Section 257.90(e)(6)(ii) – At the end of the current monitoring period, the subject CCR unit is operating under assessment monitoring in accordance with Section 257.95. The shift to assessment monitoring occurred on March 28, 2022.
- Section 257.90(e)(6)(iii) – The following potential statistically significant increases (SSIs) above established background for Appendix III detection monitoring constituents were noted during this monitoring period:
 - MW-05 – boron (4th quarter)
 - MW-06 – calcium (1st quarter)
 - MW-09 – chloride (1st through 4th quarter), fluoride (4th quarter)
 - MW-10 – boron (4th quarter), fluoride (2nd through 4th quarters)
 - MW-11 – chloride (1st quarter)
 - MW-12 – chloride (1st through 4th quarters), fluoride (4th quarter), TDS (1st through 4th quarters).

Wells MW-05 and MW-06 are upgradient monitoring points.

- Section 257.90(e)(6)(iv) – The subject units were shifted into assessment monitoring on March 28, 2022. The following Appendix IV constituents were detected above the established Groundwater Protection Standards (GWPSs) after verification resampling:

- Selenium – MW-05 (4th quarter)
- Arsenic – MW-10 and MW-11 (4th quarter)

Well MW-05 is an upgradient monitoring point. The date the receipt of the verification sampling data was January 9, 2023. An Assessment of Corrective Measures (ACM) will be initiated for Ponds 2S and 3S within 90-days of that date in accordance with 40 CFR Section 257.96. Relative to the selenium detection above the GWPS in upgradient well MW-05, it is noted that there have never been, and continue to be no detections of selenium in any of the downgradient wells above the GWPS.

- Section 257.90(e)(6)(v) – As noted above, the ACM is in the process of being initiated. The subject units are not yet undergoing corrective action.
- Section 257.90(e)(6)(vi) – As noted above, the ACM is in the process of being initiated. The subject units are not yet undergoing corrective action.

1.0 INTRODUCTION

In the 2022 reporting period, assessment monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.95, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) have been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Will County Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for Ash Ponds 2 South (2S) and 3 South (3S). The CCR monitoring well network around these ponds consists of six monitoring wells (MW-05, MW-06, MW-09, MW-10, MW-11 and MW-12) as shown on Figure 1. Wells MW-05 and MW-06 are upgradient wells.

This annual report covers the work performed relative to CCR groundwater monitoring for the calendar year 2022. It does not duplicate information or activities previously reported for prior years. 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 and summarizes the analytical data generated.

2.0 FIELD PROCEDURES AND GROUNDWATER FLOW EVALUATION

2.1 Field Procedures

As previously noted, the CCR groundwater monitoring network around the Ash Ponds 2S and 3S at the Will County facility consists of six wells (MW-05, MW-06, MW-09, MW-10, MW-11 and MW-12) 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). Wells MW-05, MW-06, MW-09 were found in good condition with locked protector casings and intact concrete surface seals. Wells MW-10, MW-11 and MW-12 are completed with flush-mounts at ground surface and were also in good condition.

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

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. The water levels were used to generate a groundwater flow map for each sampling event. These maps are provided as Figures 2 through 5. A review of the maps indicates a consistent westerly groundwater flow direction. In accordance with general groundwater sampling requirements under Section 257.93(c), Table 2 provides a summary of the flow direction and an estimated rate of groundwater flow for each sampling event. The flow rate was calculated using the following equation:

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

V_s is seepage velocity (distance/time)
 K is hydraulic conductivity (distance/time)
 dh/dl is hydraulic gradient (unitless)
 n_e is effective porosity (unitless)

Through 2020, the average hydraulic conductivity of 3.896×10^{-3} ft/sec 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 being completed for Ponds 2S and 3S. The Patrick Engineering slug test data were re-evaluated as part of the modeling exercise and a modified hydraulic geometric mean of 2.3148×10^{-4} ft/sec was estimated and subsequently used in Table 2 for 2021 and 2022 estimates. The estimated effective porosity of the aquifer materials (0.35) was obtained from literature (Applied Hydrogeology, Fetter, 1980).

3.0 ANALYTICAL DATA AND STATUS OF EVALUATIONS

3.1 Sampling Summary

The groundwater sampling summary from the 2022 reporting period is provided in Table 3, in accordance with 257.90 (e)(3).

3.2 Data Summary

The analytical data from the detection monitoring groundwater sampling for Appendix III parameters are provided in Table 4 which includes calculated Prediction Limits (PLs) established in the initial CCR Groundwater Monitoring Statistical Evaluation Summary dated January 2018 for data comparison purposes. The downgradient intrawell prediction limits were established for the three parameters which were part of the Alternate Source Demonstration (ASD) as recommended at the end of that evaluation. Table 5 includes a summary of Appendix IV sampling data generated as part of assessment monitoring which was initiated the 2nd quarter 2022. Table 4 includes calculated GWPSs for any Appendix IV constituents detected during the initial round of assessment monitoring data in accordance with Sections 257.95(h).

Quarterly groundwater sampling was completed during the 2022 reporting period. The first quarterly sampling was only for Appendix III parameters since the site was not yet shifted into assessment monitoring. The full list of Appendix III and IV parameters were analyzed for in the second through fourth quarters. The data summarized in Tables 4 and 5 include the sample dates and whether the specific well is considered upgradient or downgradient relative to groundwater flow and the regulated unit. The analytical data packages are provided in Appendix A.

As discussed below in Section 4.0, an ASD was completed on March 28, 2022 relative to the detection monitoring results for chloride in downgradient monitoring well MW-11 which were presented in the Annual Groundwater Monitoring and Corrective Action Report – 2021 dated January 31, 2022. Based on that ASD, the site was transitioned into assessment monitoring in accordance with Section 257.95. The following Appendix IV constituents were detected above the established Groundwater Protection Standards (GWPSs) after verification resampling:

- Selenium – MW-05 (4th quarter)
- Arsenic – MW-10 and MW-11 (4th quarter)

Well MW-05 is an upgradient monitoring point. It is noted that there have never been, and continue to be no detections of selenium in any of the downgradient wells above the GWPS.

3.3 Current Status

Ash Ponds 2S and 3S are, and continue to be, in assessment monitoring in accordance with Section 257.95. Upgradient well MW-05 had a verified detection of selenium above the GWPS in the fourth quarter sampling. There have never been, and continue to be no detections of selenium in any of the downgradient wells above the GWPS. There were also confirmed arsenic detections in downgradient wells MW-10 and MW-11 above the established GWPS in the fourth quarter. The site will proceed with the initiation and development of an Assessment of Corrective Measures (ACM) in accordance with Section 257.96. The date the receipt of the verification sampling data was January 9, 2023. An ACM will be initiated for Ponds 2S and 3S within 90-days of that date. In addition, work will commence on characterizing the nature and extent of the impacts in accordance with Section 257.95(g)(1).

4.0 OTHER REQUIRED SUBMITTALS

4.1 Alternate Source Demonstration

An ASD was completed March 28, 2022 for chloride at downgradient monitoring well location MW-11 (see Section 3.2) in accordance with Section 257.94(e)(2) of the Federal CCR Rule. Based on the discussions provided in the ASD, it was not believed that Pond 3S is the source of downgradient chloride impacts at monitoring well MW-11, however, the data relative to the Pond 2S does not allow for that conclusion to be reached based on the following:

- Results of basic conservative fluid mixing calculations indicated that the observed chloride concentration in well MW-11 falls within the range of expected concentrations when mixing upgradient groundwater concentrations with the high value Leaf Test chloride concentration from Pond 2S.
- There are statistically significant decreasing trends in chloride concentrations in both upgradient monitoring wells and there are statistically significant increasing trends in chloride concentrations in monitoring wells MW-09 and MW-11, both of which are immediately downgradient of Pond 2S.

It was, therefore, recommended that the site be shifted from detection monitoring into assessment monitoring in accordance with Section 257.95 of the Federal CCR Rule. The full ASD report is provided in Appendix B.

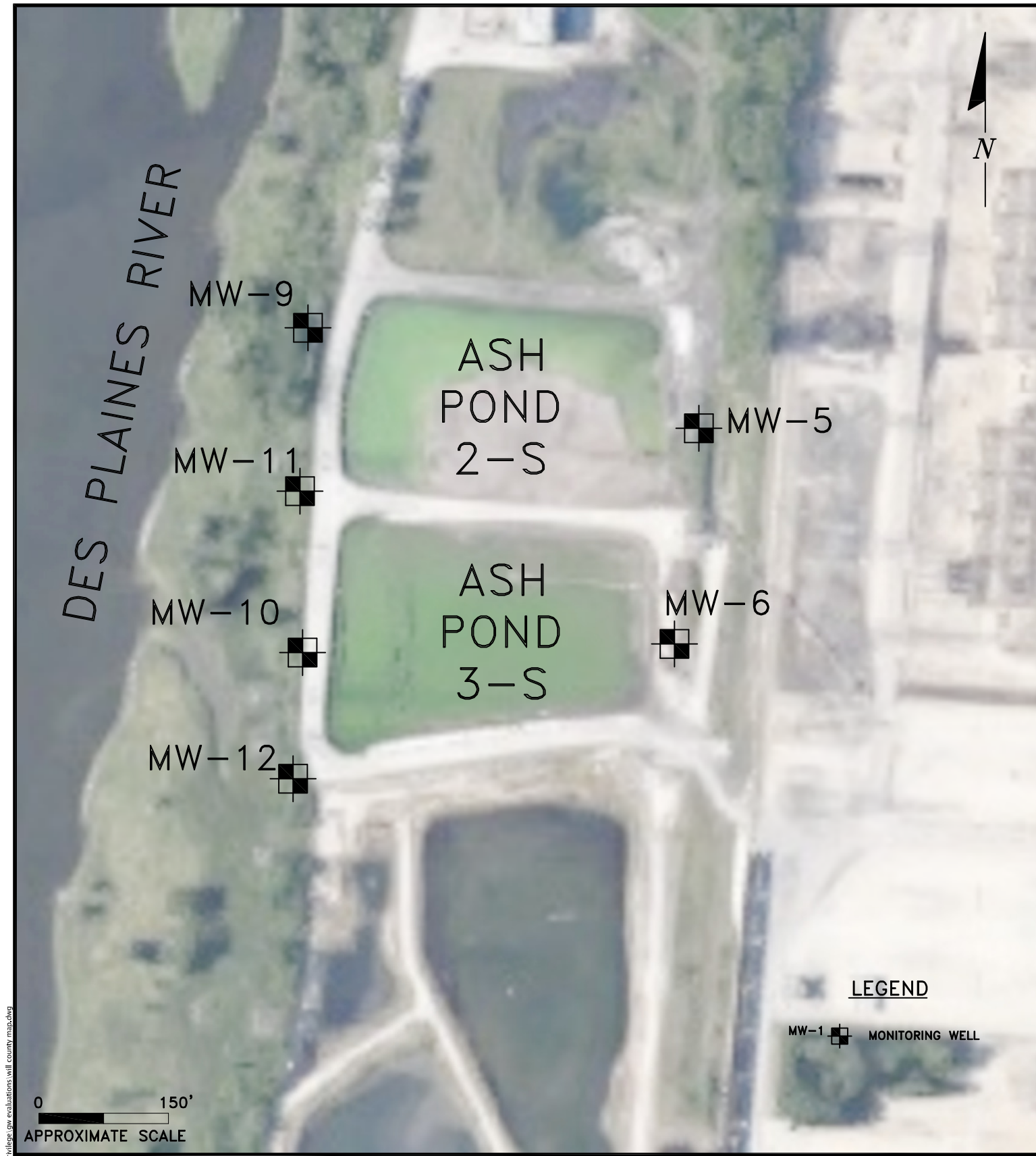
5.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS

The groundwater monitoring requirements in accordance with the CCR Rule have been successfully met. The site was transitioned from detection monitoring under Section 257.94 to assessment monitoring under Section 257.95 on March 28, 2022. The shift to assessment monitoring was based on the results of an ASD which could not conclusively rule out the increased chloride concentration in downgradient monitoring well MW-11, which was determined to be a SSI above the established prediction limit, to be potentially sourced from Pond 2S. Subsequent assessment monitoring identified arsenic concentrations in downgradient monitoring wells MW-10 and MW-11 above the established GWPS of 0.01 mg/l. Therefore, it is recommended that the site proceed with the initiation and development of an ACM in accordance with Section 257.96 within 90-days of the receipt of the analytical data confirming the arsenic concentration above the GWPS in downgradient wells. In addition, characterizing the nature and extent of the impacts in must be completed in accordance with Section 257.95(g)(1).

6.0 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 – Will County Generating Station, Romeoville, IL. February 2011.
- KPRG and Associates, Inc., CCR Compliance Monitoring, Sampling and Analysis Plan, Midwest Generation, LLC Will County Generating Station. October 10, 2017.
- KPRG and Associates, Inc., CCR Compliance Statistical Approach for Groundwater Data Evaluation, Midwest Generation, LLC Will County Generating Station. October 10, 2017.
- KPRG and Associates, Inc., CCR Groundwater Monitoring Statistical Evaluation Summary - 2017, Midwest Generation, LLC Will County Generating Station. January 12, 2018.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2017, Midwest Generation, LLC Will County Generating Station. January 31, 2018.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2018, Midwest Generation, LLC Will County Generating Station. January 31, 2019.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2019, Midwest Generation, LLC Will County Generating Station. January 31, 2020.
- R.A. Freeze and J.A. Cherry, Groundwater. Prentice-Hall, Inc. Publishing Co., 1979.

FIGURES



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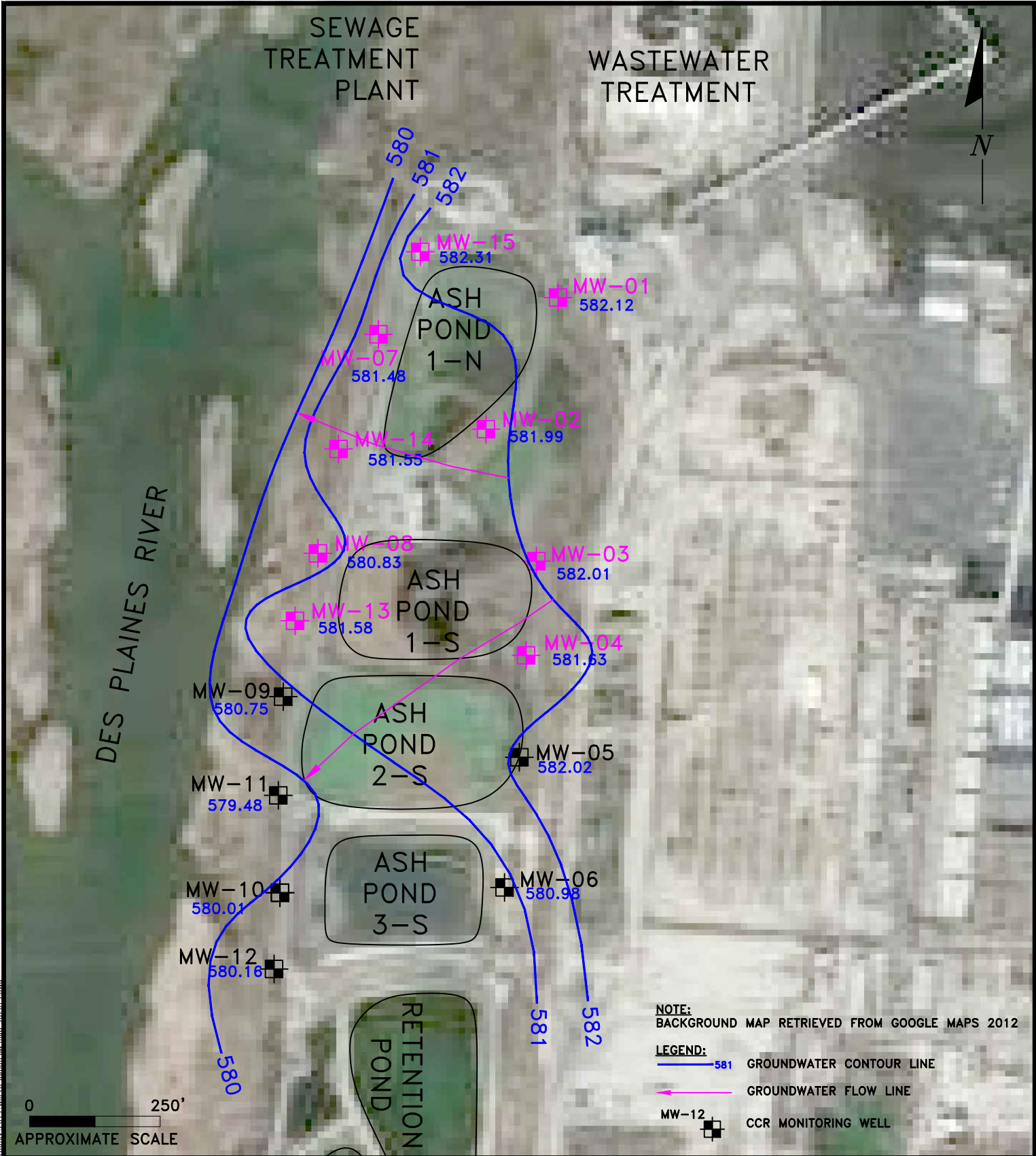
14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

CCR MONITORING WELL SITE MAP

WILL COUNTY STATION
ROMEOVILLE, ILLINOIS

Scale: 1" = 150' Date: December 27, 2017

KPRG Project No. 12313.3 **FIGURE 1**



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CCR GROUNDWATER CONTOUR 1Q2022

WILL COUNTY STATION
ROMEOWILLE, ILLINOIS

Scale: 1" = 250'

Date: April 13, 2022

KPRG Project No. 12313.3

FIGURE 2



NOTE:
BACKGROUND MAP RETRIEVED FROM GOOGLE MAPS 2012

LEGEND:
 581 GROUNDWATER CONTOUR LINE
 GROUNDWATER FLOW LINE
 MW-12 CCR MONITORING WELL

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CCR GROUNDWATER CONTOUR 2Q2022

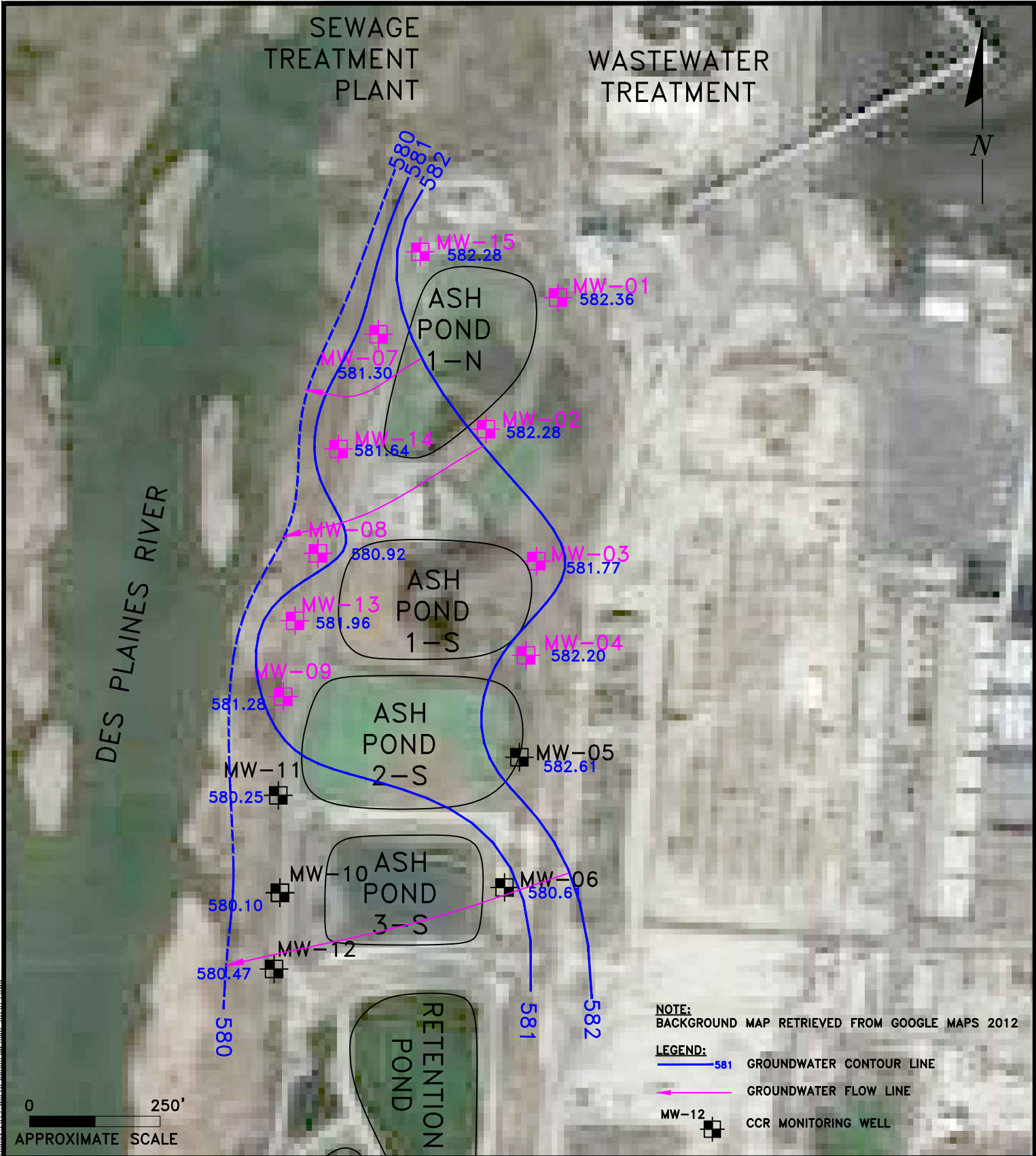
WILL COUNTY STATION
ROMEOWILLE, ILLINOIS

Scale: 1" = 250' Date: January 18, 2023

KPRG Project No. 12313.3

FIGURE 3

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NOTE:
BACKGROUND MAP RETRIEVED FROM GOOGLE MAPS 2012

LEGEND:
 581 GROUNDWATER CONTOUR LINE
 GROUNDWATER FLOW LINE
 MW-12 CCR MONITORING WELL

ENVIRONMENTAL CONSULTATION & REMEDIATION

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CCR GROUNDWATER CONTOUR 3Q22

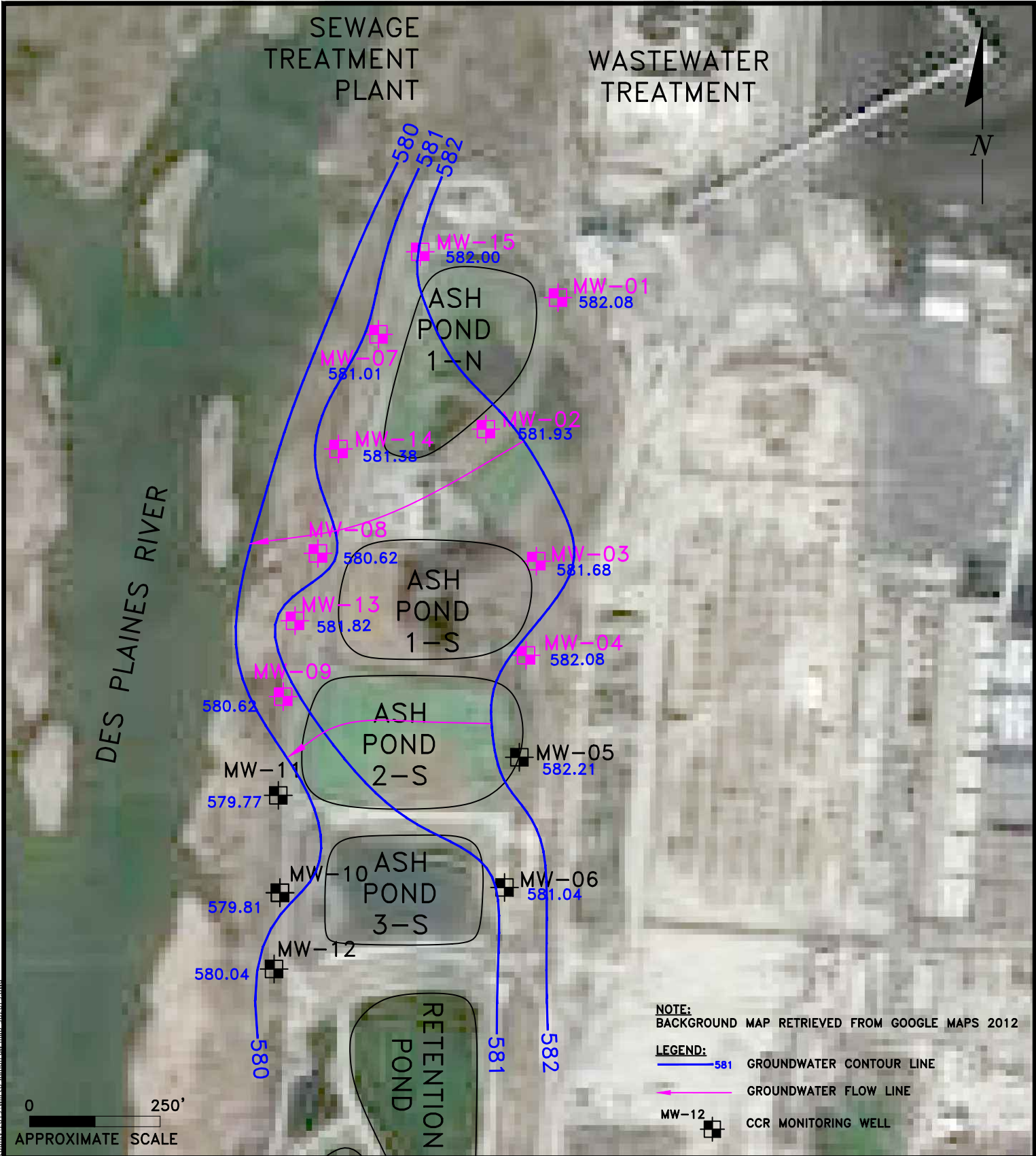
WILL COUNTY STATION
ROMEOWILLE, ILLINOIS

Scale: 1" = 250' Date: January 18, 2023

KPRG Project No. 12313.3

FIGURE 4

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CCR GROUNDWATER CONTOUR 4Q22

WILL COUNTY STATION
ROMEOWILLE, ILLINOIS

Scale: 1" = 250'

Date: January 18, 2023

KPRG Project No. 12313.3

FIGURE 5

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TABLES

Table 1. Groundwater Elevations - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-05	11/9/2015	992.87	9.99	582.88
	2/16/2016	992.87	9.91	582.96
	5/24/2016	992.87	9.94	582.93
	8/9/2016	992.87	10.09	582.78
	10/25/2016	992.87	9.02	583.85
	1/31/2017	992.87	9.81	583.06
	5/9/2017	992.87	9.63	583.24
	6/27/2017	992.87	10.26	582.61
	9/6/2017	992.87	10.48	582.39
	11/16/2017	992.87	10.02	582.85
	2/28/2018	992.87	9.48	583.39
	5/1/2018	992.87	9.94	582.93
	10/2/2018	992.87	10.64	582.23
	5/28/2019	992.87	8.73	584.14
	12/5/2019	992.87	9.92	582.95
	5/22/2020	992.87	9.39	583.48
	11/3/2020	992.87	10.48	582.39
	5/24/2021	992.87	10.21	582.66
	11/19/2021	992.87	10.25	582.62
	1/19/2022	992.87	10.54	582.33
	2/10/2022	992.87	10.85	582.02
	3/14/2022	992.87	9.90	582.97
	4/6/2022	992.87	9.59	583.28
	5/23/2022	992.87	10.06	582.81
	6/29/2022	992.87	10.68	582.19
	7/19/2022	992.87	10.40	582.47
	8/23/2022	992.87	10.26	582.61
	9/20/2022	992.87	10.17	582.70
	10/13/2022	992.87	11.09	581.78
	11/15/2022	992.87	10.66	582.21
	12/19/2022	992.87	9.96	582.91
	MW-06	11/9/2015	993.18	9.96
2/16/2016		993.18	11.37	581.81
5/24/2016		993.18	11.37	581.81
8/9/2016		993.18	11.54	581.64
10/25/2016		993.18	11.37	581.81
1/31/2017		993.18	11.24	581.94
5/9/2017		993.18	10.86	582.32
6/27/2017		993.18	11.55	581.63
9/6/2017		993.18	11.77	581.41
11/16/2017		993.18	11.49	581.69
2/28/2018		993.18	10.91	582.27
5/1/2018		993.18	11.47	581.71
10/2/2018		993.18	11.89	581.29
5/28/2019		993.18	10.18	583.00
12/5/2019		993.18	11.51	581.67
5/22/2020		993.18	10.55	582.63
11/3/2020		993.18	11.86	581.32
5/24/2021		993.18	11.85	581.33
11/19/2021		993.18	11.85	581.33
1/19/2022		993.18	12.07	581.11
2/10/2022		993.18	12.20	580.98
3/14/2022		993.18	11.61	581.57
4/6/2022		993.18	11.07	582.11
5/23/2022		993.18	11.62	581.56
6/29/2022		993.18	12.21	580.97
7/19/2022		993.18	11.88	581.30
8/23/2022		993.18	12.57	580.61
9/20/2022		993.18	11.78	581.40
10/13/2022		993.18	12.37	580.81
11/15/2022		993.18	12.14	581.04
12/19/2022		993.18	11.53	581.65
MW-09		11/9/2015	992.87	11.38
	2/16/2016	992.87	11.03	581.84
	5/24/2016	992.87	11.35	581.52
	8/9/2016	992.87	11.43	581.44
	10/25/2016	992.87	10.74	582.13
	1/31/2017	992.87	11.15	581.72
	5/9/2017	992.87	10.45	582.42
	6/27/2017	992.87	11.66	581.21
	9/6/2017	992.87	11.95	580.92
	11/14/2017	992.87	11.54	581.33
	2/27/2018	992.87	10.13	582.74
	5/1/2018	992.87	11.39	581.48
	10/2/2018	992.87	11.91	580.96
	5/28/2019	992.87	9.65	583.22
	12/5/2019	992.87	11.17	581.70
	5/26/2020	992.87	9.67	583.20
	11/3/2020	992.87	11.90	580.97
	5/25/2021	992.87	12.02	580.85
	11/19/2021	992.87	11.84	581.03
	1/19/2022	992.87	12.04	580.83
	2/10/2022	992.87	12.12	580.75
	3/14/2022	992.87	11.48	581.39
	4/6/2022	992.87	10.46	582.41
	5/23/2022	992.87	11.22	581.65
	6/29/2022	992.87	12.20	580.67
	7/19/2022	992.87	11.86	581.01
	8/23/2022	992.87	11.59	581.28
	9/20/2022	992.87	11.39	581.48
	10/13/2022	992.87	11.97	580.90
	11/15/2022	992.87	12.25	580.62
	12/19/2022	992.87	11.34	581.53

Table 1. Groundwater Elevations - Midwest Generation, LLC, Will County Station, Romeoville, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-10	11/9/2015	990.96	10.65	580.31
	2/16/2016	990.96	10.43	580.53
	5/24/2016	990.96	10.72	580.24
	8/9/2016	990.96	11.12	579.84
	10/25/2016	990.96	10.73	580.23
	1/31/2017	990.96	10.37	580.59
	5/9/2017	990.96	9.78	581.18
	6/27/2017	990.96	11.09	579.87
	9/6/2017	990.96	11.20	579.76
	11/15/2017	990.96	10.76	580.20
	2/27/2018	990.96	9.54	581.42
	5/1/2018	990.96	10.64	580.32
	10/2/2018	990.96	11.12	579.84
	5/28/2019	990.96	9.02	581.94
	12/5/2019	990.96	10.28	580.68
	5/27/2020	990.96	8.89	582.07
	11/3/2020	990.96	10.68	580.28
	5/24/2021	990.96	11.06	579.90
	11/19/2021	990.96	10.72	580.24
	1/19/2022	990.96	11.00	579.96
	2/10/2022	990.96	10.95	580.01
	3/14/2022	990.96	10.57	580.39
	4/6/2022	990.96	9.74	581.22
	5/23/2022	990.96	8.99	581.97
6/29/2022	990.96	11.50	579.46	
7/19/2022	990.96	11.03	579.93	
8/23/2022	990.96	10.86	580.10	
9/20/2022	990.96	10.35	580.61	
10/13/2022	990.96	11.06	579.90	
11/15/2022	990.96	11.15	579.81	
12/19/2022	990.96	10.02	580.94	
MW-11	11/9/2015	990.69	10.28	580.41
	2/16/2016	990.69	10.15	580.54
	5/24/2016	990.69	10.25	580.44
	8/9/2016	990.69	10.66	580.03
	10/25/2016	990.69	10.42	580.27
	1/31/2017	990.69	9.91	580.78
	5/9/2017	990.69	9.21	581.48
	6/27/2017	990.69	10.48	580.21
	9/6/2017	990.69	10.73	579.96
	11/15/2017	990.69	10.43	580.26
	5/1/2018	990.69	10.18	580.51
	10/2/2018	990.69	10.59	580.10
	5/28/2019	990.69	8.32	582.37
	12/5/2019	990.69	9.85	580.84
	5/26/2020	990.69	8.09	582.60
	11/3/2020	990.69	10.58	580.11
	5/24/2021	990.69	10.76	579.93
	8/23/2021	990.69	10.75	579.94
	11/19/2021	990.69	10.60	580.09
	1/19/2022	990.69	10.67	580.02
	2/10/2022	990.69	11.21	579.48
	3/14/2022	990.69	10.24	580.45
	4/6/2022	990.69	9.14	581.55
	5/23/2022	990.69	9.72	580.97
6/29/2022	990.69	11.00	579.69	
7/19/2022	990.69	10.44	580.25	
8/23/2022	990.69	10.35	580.34	
9/20/2022	990.69	9.82	580.87	
10/13/2022	990.69	10.44	580.25	
11/15/2022	990.69	10.92	579.77	
12/19/2022	990.69	9.77	580.92	
MW-12	11/9/2015	990.81	10.15	580.66
	2/16/2016	990.81	10.24	580.57
	5/24/2016	990.81	10.31	580.50
	8/9/2016	990.81	10.73	580.08
	10/25/2016	990.81	10.45	580.36
	1/31/2017	990.81	10.16	580.65
	5/9/2017	990.81	9.88	580.93
	6/27/2017	990.81	10.62	580.19
	9/6/2017	990.81	10.61	580.20
	11/15/2017	990.81	10.20	580.61
	5/1/2018	990.81	10.30	580.51
	10/2/2018	990.81	10.77	580.04
	5/28/2019	990.81	9.17	581.64
	12/5/2019	990.81	10.15	580.66
	5/22/2020	990.81	9.88	580.93
	11/3/2020	990.81	10.49	580.32
	5/24/2021	990.81	10.65	580.16
	8/23/2021	990.81	11.05	579.76
	11/19/2021	990.81	10.48	580.33
	1/19/2022	990.81	10.63	580.18
	2/10/2022	990.81	10.65	580.16
	3/14/2022	990.81	10.24	580.57
	4/6/2022	990.81	9.83	580.98
	5/23/2022	990.81	10.18	580.63
6/29/2022	990.81	11.15	579.66	
7/19/2022	990.81	10.62	580.19	
8/23/2022	990.81	10.34	580.47	
9/20/2022	990.81	10.22	580.59	
10/13/2022	990.81	10.78	580.03	
11/15/2022	990.81	10.77	580.04	
12/19/2022	990.81	9.97	580.84	

MSL - Mean Sea Level
TOC - Top of Casing

Table 2. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Will County Generation Station.

DATE	Groundwater Flow Direction	K _{avg} (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
5/24/2021	West	2.315E-04	0.0049	0.2	0.49
11/19/2021	West	2.315E-04	0.0047	0.2	0.47
2/10/2022	West	2.315E-04	0.0041	0.2	0.41
6/29/2022	West	2.315E-04	0.0047	0.2	0.47
8/23/2022	West	2.315E-04	0.0039	0.2	0.39
11/15/2022	West	2.315E-04	0.0043	0.2	0.43

* K_{avg} - 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 estimate from Groundwater, Freeze and Cherry, 1979.

Table 3. CCR Groundwater Sample Collection Summary for 2022 - Will County Generating Station

Well ID	Number of Groundwater Sampling Events	Dates Groundwater Sampling Events	Detection Monitoring (D) versus Assessment Monitoring (A)
MW-05 (Upgradient)	4	2/24/2022	A
		6/16/2022	A
		8/25/2022	A
		11/15/2022	A
MW-06 (Upgradient)	4	2/22/2022	A
		6/14/2022	A
		8/25/2022	A
		11/16/2022	A
MW-09 (Downgradient)	4	2/22/2022	A
		6/15/2022	A
		8/25/2022	A
		11/16/2022	A
MW-10 (Downgradient)	4	2/24/2022	A
		6/14/2022	A
		8/25/2022	A
		11/16/2022	A
MW-11 (Downgradient)	4	2/23/2022	A
		6/13/2022	A
		8/23/2022	A
		11/16/2022	A
MW-12 (Downgradient)	4	2/24/2022	A
		6/13/2022	A
		8/23/2022	A
		11/16/2022	A

Table 4. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-05 up-gradient	11/11/2015	6.1	220	110	0.31	7.24	770	1,900
	2/18/2016	4.4	230	120	0.31	6.99	730	1,600
	5/26/2016	3.7	170	110	0.33	6.73	670	1,500
	8/10/2016	3.6	67	120	0.72	8.62	480	970
	10/26/2016	3.6	44	120	0.70	9.08	410	920
	2/1/2017	4.6	250	48	0.35	6.81	530	1,600
	5/11/2017	4.0	140	85	0.31	7.86	610	1,200
	6/27/2017	3.8	83	99	0.53	7.95	500	1,000
	Pred. Limit*	6.65	359	148	0.72	9.93-5.39	923	2,286
	9/8/2017	4.8	89	78	0.52	9.40	490	1,000
	11/16/2017	4.8	180	52	0.45	6.70	650	1,500
	5/2/2018	3.6	200	32	0.39	7.23	510	1,300
	10/3/2018	4.9	150	55	0.48	7.07	430	1,200
	5/29/2019	4.1	61	91	0.59	9.10	380	870
	12/6/2019	4.9	170	31	0.41	6.95	440	1,200
	5/22/2020	4.5	52	70	0.59	7.39	300	870
	11/4/2020	5	130	29	0.38	7.06	410	1,100
	5/24/2021	4.7	120	28	0.53	7.07	430	1,000
	11/23/2021	5.5	140	22	0.44	6.80	370	1,100
	2/24/2022	4.9	210	25	0.39	6.73	660	1,400
6/16/2022	5.1	120	41	0.34	7.05	510	1,100	
8/25/2022	6.6	130	20	0.4	6.69	300	940	
11/15/2022	8.9	150	9.8	0.72	6.78	310	930	
MW-06 up-gradient	11/10/2015	3.0	52	100	0.55	8.63	300	660
	2/18/2016	2.5	74	150	0.47	8.58	280	650
	5/26/2016	2.7	86	92	0.44	7.79	350	800
	8/11/2016	3.6	110	58	0.35	7.74	330	840
	10/26/2016	3.8	86	74	0.40	8.16	220	800
	2/1/2017	3.4	70	83	0.41	7.88	260	700
	5/11/2017	3.0	75	84	0.28	8.68	330	570
	6/27/2017	3.1	65	74	0.38	8.15	330	710
	Pred. Limit*	4.29	122	162	0.62	9.21-7.19	415	956
	9/7/2017	3.5	75	67	0.40	8.20	300	740
	11/16/2017	3.9	88	54	0.39	7.59	280	810
	5/3/2018	3	91	52	0.26	6.91	530	750
	7/25/2018 R	NA	NA	NA	NA	7.47	280	NA
	10/3/2018	3.5	93	44	0.31	7.83	240	720
	5/29/2019	4.3	120	38	0.21	7.51	350	1,000
	7/3/2019 R	3.2	NA	NA	NA	NA	NA	740
	12/6/2019	4.2	98	31	0.33	7.91	210	740
	5/22/2020	3.4	98	56	0.31	7.47	180	710
	11/3/2020	3.3	100	43	0.36	7.29	170	700
	5/24/2021	2.6	99	46	0.33	7.65	160	610
11/23/2021	2.6	85	43	0.37	7.48	150	720	
2/22/2022	2.8	130	35	0.33	7.29	260	940	
6/14/2022	2.5	110	22	0.35	7.06	210	610	
8/25/2022	2.7	110	20	0.42	7.31	170	750	
11/16/2022	3.2	110	19	0.47	7.41	160	600	
MW-09 down gradient	11/11/2015	1.9	56	190	0.55	9.12	460	750
	2/17/2016	1.8	47	160	0.55	9.10	250	600
	5/24/2016	1.6	48	180	0.51	8.79	240	640
	8/9/2016	2.2	53	140	0.48	8.35	280	750
	10/26/2016	2.2	33	130	0.81	9.16	230	660
	1/31/2017	2.0	61	250	0.57	8.59	180	710
	5/9/2017	1.8	66	340	0.38	8.58	250	900
	6/27/2017	1.9	64	330	0.51	7.76	240	940
	Pred. Limit*	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	Pred. Limit*	NC	NC	431.2	0.87	NC	NC	1,060
	9/6/2017	1.8	59	310	0.51	8.98	240	890
	11/14/2017	2.6	160	270	0.51	8.1	290	910
	5/1/2018	1.7	49	200	0.52	7.81	430	820
	7/25/2018 R	NA	NA	NA	NA	NA	320	NA
	10/2/2018	2.1	49	170	0.55	8.09	270	820
	5/29/2019	1.5	48	280	0.29	8.90	150	750
	12/6/2019	2.0	38	140	0.46	8.65	160	630
	5/26/2020	1.3	55	320	0.32	8.66	140	720
	11/3/2020	2.0	43	240	0.55	8.64	180	750
	5/26/2021	1.6	67	360	0.39	8.74	180	900
11/23/2021	1.1	30	290	0.47	8.73	210	900	
2/22/2022	1.5	49	250	0.4	8.65	160	900	
6/15/2022	1.9	43	230	0.48	8.35	180	730	
8/25/2022	2.1	38	210	0.58	8.68	190	770	
11/16/2022	2.3	37	210	0.79	8.82	160	690	

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

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

** - Based on pooled background from MW-5/MW-6. All others based on MW-6 as background.

Italics Date - First round of Detection Monitoring and resample after statistical background establishment.

NC - Not calculated.

BOLD - Potential statistically significant increase relative to interwell Prediction Limit.

BOLD - Potential statistically significant increase relative to intrawell Prediction Limit.

BOLD - Above both interwell and intrawell Prediction Limits

R - Not analyzed. No confirmation resample required.

R - Resample

F1 - MS and/or MSD Recovery outside of limits.

Table 4. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-10 down-gradient	11/10/2015	3.9	140	140	0.77	7.34	310	980
	2/16/2016	3.6	150	240	0.79	7.29	290	950
	5/25/2016	3.6	120	140	0.83	7.26	260	1,000
	8/10/2016	4.3	150	120	0.78	7.22	230	970
	10/26/2016	3.0	160	74	0.52	7.30	220	1,000
	2/2/2017	3.7	180	81	0.54	7.16	160	930
	5/10/2017	3.0	150	100	0.44	7.83	340	860
	6/27/2017	2.8	130	110	0.67	7.49	250	930
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	Pred. Limit*	NC	NC	262.2	1.06	NC	NC	1,074
	9/7/2017	2.8	120	120	0.77	7.37	290	920
	11/15/2017	4.1	140	120	0.77	7.10	270	1,000
	5/1/2018	3.2	150	130	0.65	7.31	280	990
	10/3/2018	2.5	110	140	0.89	7.60	200	860
	5/29/2019	2.8	100	140	0.82	7.53	260	860
	12/5/2019	3.7	120	110	0.93	7.21	190	940
	5/27/2020	2.3	100	170	0.90	7.29	280	850
	11/3/2020	3.7	130	140	0.87	7.02	180	920
	5/25/2021	3.0	160	130	0.62	7.16	160	910
	11/23/2021	2.7	110	130	0.71	7.07	230	990
2/24/2022	2.6	130	120	0.53	7.02	170	840	
6/14/2022	2.9	100	140	0.86	6.99	280	790	
8/25/2022	2.6	130	140	0.99	7.47	280	910	
11/16/2022	4.4	130	160	0.94	7.15	220	910	
MW-11 down-gradient	11/10/2015	2.6	120	89	0.61	7.60	180	620
	2/16/2016	3.0	100	88	0.68	7.47	170	640
	5/25/2016	2.8	82	98	0.75	7.43	170	640
	8/10/2016	3.1	96	86	0.72	7.57	150	660
	10/26/2016	2.5	110	67	0.53	7.82	120	630
	2/1/2017	3.9	110	72	0.65	7.54	110	600
	5/10/2017	3.1	95	84	0.46	8.37	170	590
	6/27/2017	2.8	87	90	0.59	7.57	150	680
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	Pred. Limit*	NC	NC	110.6	0.88	NC	NC	710
	9/7/2017	2.8	90	94	0.58	7.40	150	730
	11/15/2017	2.9	96	100	0.65	7.41	160	750
	5/3/2018	3.8	73	110	0.69	6.74	190	670
	10/3/2018	3.1	78	110	0.66	7.65	120	680
	5/29/2019	2.2	86	110	0.49	7.55	120	610
	12/5/2019	2.5	100	80	0.55	7.26	91	600
	5/26/2020	2.3	89	100	0.54	7.4	90	540
	11/3/2020	4.3	85	140	0.72	7.17	68	710
	5/25/2021	3.8	94	130	0.74	7.68	57	660
	11/23/2021	2	130	150	0.48	6.94	94	810
12/22/2021 R	NA	NA	150	NA	7.03	NA	NA	
2/23/2022	1.8	130	150	0.38	6.94	91	760	
6/13/2022	2.8	120	140	0.4	7.22	97	700	
8/23/2022	2.5	110	140	0.53	6.94	160	740	
11/16/2022	3.8	120	130	0.71	7.34	66	700	
MW-12 down-gradient	11/10/2015	2.3	150	160	0.59	7.44	290	1,000
	2/16/2016	1.8	130	140	0.52	7.38	220	850
	5/25/2016	1.9	130	150	0.54	7.23	250	890
	8/10/2016	2.4	170	140	0.49	7.20	280	1,000
	10/26/2016	2.6	140	120	0.49	7.44	220	980
	2/1/2017	2.0	160	120	0.48	7.30	150	900
	5/10/2017	2.3	200	240	0.30	7.65	260	1,300
	6/27/2017	2.4	180	280	0.44	7.31	260	1,300
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	Pred. Limit*	NC	NC	338.8	0.71	NC	NC	1,519
	9/8/2017	2.6	190	270	0.49	7.26	260	1,400
	11/15/2017	1.7	55	200	0.47	6.90	250	1,200
	5/3/2018	1.8	140	170	0.47	6.60	170	960
	10/2/2018	2.2	150	160	0.49	7.30	170	1,100
	5/29/2019	1.9	140	140	0.42	7.23	190	930
	12/5/2019	2.1	140	71	0.53	7.02	110	820
	5/22/2020	1.9	180	120	0.4	6.95	140	1,100
	11/3/2020	2.2	160	190	0.52	7.27	160	1,000
	5/25/2021	1.8	140	170	0.49	7.37	180	930
	11/23/2021	2.3	180	210	0.44	7.01	180	1,200
2/24/2022	1.7	150	150	0.4	7.06	150	1,000	
6/13/2022	1.9	160	210	0.45	7.03	170	1,000	
8/23/2022	1.9	150	170	0.37	6.62	160	1,000	
11/16/2022	2.3	160	180	0.97	7.34	180	1,000	

Notes: All units are in mg/l except pH is in standard units.
 * - Intrawell Prediction Limit. All others are interwell comparisons.
 ** - Based on pooled background from MW-5/MW-6. All others based on MW-6 as background.
 Italics Date - First round of Detection Monitoring and resample after statistical background establishment.
 NC - Not calculated.
BOLD - Potential statistically significant increase relative to interwell Prediction Limit.
BOLD - Potential statistically significant increase relative to intrawell Prediction Limit.
BOLD - Above both interwell and intrawell Prediction Limits
 NA - Not analyzed. No confirmation resample required.
 R - Resample
 F1 - MS and/or MSD Recovery outside of limits.

Table 5. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	
MW-05 up-gradient	11/11/2015	< 0.003	0.0014	0.071	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	0.013	< 0.0002	0.0750	-0.168	0.031	< 0.002	
	2/18/2016	< 0.003	0.0021	0.058	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	0.017	< 0.0002	0.079	0.468	0.019	< 0.002	
	5/26/2016	< 0.003	0.0023	0.055	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.011	< 0.0002	0.077	< 0.402	0.019	< 0.002	
	8/10/2016	< 0.003	0.0044	0.043	< 0.001	< 0.0005	< 0.005	< 0.001	0.72	< 0.0005	< 0.010	F1 < 0.0002	0.14	< 0.394	0.0049	< 0.002	
	10/26/2016	< 0.003	0.0047	0.033	< 0.001	< 0.0005	< 0.005	< 0.001	0.70	< 0.0005	< 0.01	< 0.0002	0.12	0.592	< 0.0025	< 0.002	
	2/1/2017	< 0.003	0.0015	0.058	* < 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.016	^ < 0.0002	0.048	< 0.424	0.029	< 0.002	
	5/11/2017	< 0.003	0.0035	0.053	< 0.001	< 0.0005	< 0.005	< 0.001	0.31	< 0.0005	< 0.01	< 0.0002	0.093	< 0.388	< 0.0025	< 0.002	
	6/27/2017	< 0.003	0.0037	0.045	< 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	< 0.01	< 0.0002	0.11	0.412	< 0.0025	< 0.002	
	9/8/2017	< 0.003	0.0038	V 0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 0.0005	< 0.01	< 0.0002	0.095	0.486	0.0047	< 0.002	
	11/16/2017	< 0.003	0.0028	0.065	< 0.001	< 0.0005	< 0.005	< 0.001	0.45	< 0.0005	0.021	< 0.0002	0.064	< 0.379	0.012	< 0.002	
	5/2/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/24/2021	< 0.003	0.0011	0.046	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.53	< 0.0005	0.015	< 0.0002	0.063	< 0.492	0.042	< 0.002	
	11/23/2021	< 0.003	0.0035	0.066	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.017	< 0.0002	0.066	0.784	0.012	< 0.002	
	2/24/2022	< 0.003	0.0092	0.077	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.39	< 0.0005	0.014	< 0.0002	0.059	< 0.415	0.048	< 0.002	
	6/16/2022	< 0.003	0.0037	0.055	< 0.001	< 0.0005	< 0.005	< 0.001	0.34	< 0.0005	0.011	< 0.0002	0.064	< 0.471	0.008	< 0.002	
GWPS	NS	0.01	2.0	NS	NS	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS	
8/25/2022	< 0.003	0.0043	0.1	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.016	< 0.0002	0.061	< 0.6	0.0056	< 0.002		
11/15/2022	< 0.003	0.032	0.1	< ^+ 0.001	0.004	0.0083	< 0.001	0.7	< 0.0005	0.02	< 0.0002	0.1	< 0.6	0.089	< 0.002		
12/29/2022 (R)	NS	0.0094	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.10	NS		
MW-06 up-gradient	11/10/2015	< 0.003	0.0016	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.55	< 0.0005	0.011	< 0.0002	0.0670	-0.383	0.0039	< 0.002	
	2/18/2016	< 0.003	0.0014	0.068	< 0.001	< 0.0005	< 0.005	< 0.001	0.47	< 0.0005	0.015	< 0.0002	0.0630	0.412	< 0.0025	< 0.002	
	5/26/2016	< 0.003	0.002	0.068	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.012	< 0.0002	0.042	< 0.422	< 0.0025	< 0.002	
	8/11/2016	< 0.003	0.0029	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.017	< 0.0002	0.038	< 0.339	< 0.0025	< 0.002	
	10/26/2016	< 0.003	0.003	0.074	< 0.001	< 0.0005	< 0.005	< 0.001	0.40	< 0.0005	0.013	< 0.0002	0.043	< 0.531	< 0.0025	< 0.002	
	2/1/2017	< 0.003	0.0043	0.068	* < 0.001	< 0.0005	< 0.005	< 0.001	0.41	< 0.0005	0.012	^ < 0.0002	0.05	< 0.511	0.0035	< 0.002	
	5/11/2017	< 0.003	0.002	0.054	< 0.001	< 0.0005	< 0.005	< 0.001	0.28	0.00054	0.011	< 0.0002	0.054	< 0.388	< 0.0025	< 0.002	
	6/27/2017	< 0.003	0.0014	0.069	< 0.001	< 0.0005	< 0.005	< 0.001	0.38	< 0.0005	0.012	< 0.0002	0.046	0.408	< 0.0025	< 0.002	
	9/7/2017	< 0.003	0.0025	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	0.40	< 0.0005	0.013	< 0.0002	0.044	0.397	< 0.0025	< 0.002	
	11/16/2017	< 0.003	0.0028	0.077	< 0.001	< 0.0005	< 0.005	< 0.001	0.39	< 0.0005	0.017	< 0.0002	0.038	0.491	0.012	< 0.002	
	5/3/2018	NA	NA	NA	NA	NA	NA	NA	0.26	NA	NA	NA	NA	NA	NA	NA	
	5/24/2021	< 0.003	0.0025	0.08	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.016	< 0.0002	0.017	0.576	< 0.0025	< 0.002	
	11/23/2021	< 0.003	0.002	0.07	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.37	< 0.0005	0.014	< 0.0002	0.017	1.020	< 0.0025	< 0.002	
	2/22/2022	< 0.003	0.0019	0.09	< 0.001	< 0.0005	< 0.005	< 0.001	0.33	< 0.0005	0.018	< 0.0002	0.033	0.551	0.05	< 0.002	
	6/14/2022	< 0.003	0.0018	0.082	< 0.001	< 0.0005	< 0.005	< 0.001	0.35	< 0.0005	0.014	< 0.0002	0.018	1.220	< 0.0025	< 0.002	
GWPS	NS	0.01	2.0	NS	NS	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS	
8/25/2022	< 0.003	0.0023	0.1	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.018	< 0.0002	0.021	< 0.519	< 0.0025	< 0.002		
11/16/2022	< 0.003	0.0017	0.083	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.47	< 0.0005	0.016	< 0.0002	0.021	1.08	< 0.0025	< 0.002		
MW-09 down-gradient	11/11/2015	< 0.003	0.0047	0.027	< 0.001	< 0.0005	< 0.005	< 0.001	0.55	< 0.0005	< 0.01	< 0.0002	0.14	-0.2208	< 0.0025	< 0.002	
	2/17/2016	< 0.003	0.0051	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.55	0.00065	< 0.01	< 0.0002	0.089	< 0.373	< 0.0025	< 0.002	
	5/24/2016	< 0.003	0.0043	0.027	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.51	0.00071	< 0.01	< 0.0002	0.079	0.508	< 0.0025	< 0.002	
	8/9/2016	< 0.003	0.0052	0.031	< 0.001	< 0.0005	< 0.005	< 0.001	0.48	< 0.0005	< 0.01	< 0.0002	0.14	0.639	< 0.0025	< 0.002	
	10/26/2016	< 0.003	0.0069	0.019	< 0.001	< 0.0005	< 0.005	< 0.0010	0.81	< 0.0005	< 0.01	< 0.0002	0.11	0.608	< 0.0025	< 0.002	
	1/31/2017	< 0.003	0.0063	0.038	* < 0.001	< 0.0005	< 0.005	< 0.0010	0.57	0.0014	< 0.01	^ < 0.0002	0.09	< 0.45	< 0.0025	< 0.002	
	5/9/2017	< 0.003	0.0052	0.038	< 0.001	< 0.0005	< 0.005	< 0.0010	0.38	0.00054	< 0.01	< 0.0002	0.093	< 0.361	< 0.0025	< 0.002	
	6/27/2017	< 0.003	0.0046	0.039	< 0.001	< 0.0005	< 0.005	< 0.0010	0.51	< 0.0005	< 0.01	< 0.0002	0.091	0.638	< 0.0025	< 0.002	
	9/6/2017	< 0.003	0.0047	0.038	< 0.001	< 0.0005	< 0.005	< 0.0010	0.51	< 0.0005	< 0.01	< 0.0002	0.1	0.454	< 0.0025	< 0.002	
	11/14/2017	< 0.003	0.0017	0.11	< 0.001	< 0.0005	< 0.005	< 0.0010	0.51	< 0.0005	0.018	< 0.0002	0.026	< 0.372	0.0061	< 0.002	
	5/1/2018	NA	NA	NA	NA	NA	NA	NA	0.52	NA	NA	NA	NA	NA	NA	NA	
	5/25/2021	< 0.003	0.0044	0.054	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.39	< 0.0005	< 0.01	< 0.0002	0.054	0.741	< 0.0025	< 0.002	
	11/23/2021	< 0.003	0.0046	0.024	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.47	< 0.0005	< 0.01	< 0.0002	0.037	0.789	< 0.0025	< 0.002	
	2/22/2022	< 0.003	0.007	0.037	< 0.001	< 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.0065	< 0.0002	0.051	< 0.409	< 0.0025	< 0.002	
	6/15/2022	< 0.003	0.0071	0.036	< 0.001	< 0.0005	< 0.005	< 0.001	0.48	< 0.0005	< 0.01	< 0.0002	0.057	< 0.390	< 0.0025	< 0.002	
GWPS	NS	0.01	2.0	NS	NS	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS	
8/25/2022	< 0.003	0.0089	0.034	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	0.6	< 0.0005	< 0.01	< 0.0002	0.065	1.2	< 0.0025	< 0.002		
11/16/2022	< 0.003	0.0094	0.036	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.79	0.00066	< 0.01	< 0.0002	0.067	< 0.51	< 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.
Italics - Assessment Monitoring Conducted After Identification of Detected Appendix IV Compounds.

NS - No Standard
 DNYA - Data Not Yet Available
 R - Resample
 GWPS - Groundwater Protection Standard

F1 - MS and/or MSD Recovery outside of limits.
 ^ - Denotes instrument related QC exceeds the control limits.
 * - LCS or LCSD is outside acceptance limits.
 NA - Not Analyzed; non-detect in previous monitoring.

^1 or ^+ - Initial or continuing calibration verification limits is outside acceptable limits, high biased.

Table 5. Appendix IV Groundwater Analytical Results - Midwest Generation, LLC, Ponds 2S/3S Will County Station, Romeoville, IL

Well	Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	
MW-10 down-gradient	11/10/2015	< 0.003	0.015	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.018	< 0.0002	0.068	1.341	< 0.0025	< 0.002	
	2/16/2016	< 0.003	0.014	0.098	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.79	< 0.0005	0.021	< 0.0002	0.075	0.952	< 0.0025	< 0.002	
	5/25/2016	< 0.003	0.034	0.096	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.83	0.00055	0.016	< 0.0002	0.065	0.51	< 0.0025	< 0.002	
	8/10/2016	< 0.003	0.017	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.78	< 0.0005	0.021	< 0.0002	0.082	0.864	< 0.0025	< 0.002	
	10/26/2016	< 0.003	0.022	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 0.0005	0.021	< 0.0002	0.030	0.458	< 0.0025	< 0.002	
	2/2/2017	< 0.003	0.05	0.14	* < 0.001	< 0.0005	< 0.005	< 0.001	0.54	0.0013	0.02	^ < 0.0002	0.031	< 0.464	< 0.0025	< 0.002	
	5/10/2017	< 0.003	0.02	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.015	< 0.0002	0.066	0.882	< 0.0025	< 0.002	
	6/27/2017	< 0.003	0.0072	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.67	< 0.0005	0.017	< 0.0002	0.080	0.953	< 0.0025	< 0.002	
	9/7/2017	< 0.003	0.0076	0.086	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.014	0.00058	0.096	0.921	< 0.0025	< 0.002	
	11/15/2017	< 0.003	0.015	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.77	< 0.0005	0.021	< 0.0002	0.071	0.893	< 0.0025	< 0.002	
	5/1/2018	NA	NA	NA	NA	NA	NA	NA	NA	0.65	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	< 0.003	0.018	0.18	^1+ < 0.001	< 0.0005	< 0.005	0.0013	0.62	0.0054	0.02	< 0.0002	0.036	< 1.14	< 0.0025	< 0.002	
	11/23/2021	< 0.003	0.012	0.091	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.71	0.0011	0.013	< 0.0002	0.048	2.22	< 0.0025	< 0.002	
	2/24/2022	< 0.003	0.0072	0.1	< ^1+ 0.001	< 0.0005	< 0.005	0.0012	0.53	0.001	0.014	< 0.0002	0.043	0.77	< 0.0025	< 0.002	
	6/14/2022	< 0.003	0.008	0.081	< 0.001	< 0.0005	< 0.005	< 0.001	0.86	< 0.0005	0.015	< 0.0002	0.12	1.55	< 0.0025	< 0.002	
	GWPS	NS	0.01	2.0	NS	NS	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS
8/25/2022	< 0.003	0.019	0.11	< 0.001	< ^1+ 0.0005	0.0053	0.001	0.99	0.0077	0.015	< 0.0002	0.12	1.20	< 0.0025	< 0.002		
9/28/2022 (R)	NA	0.0088	NA	NA	NA	NA	NA	0.65	0.00093	NA	NA	NA	NA	NA	NA	NA	
11/16/2022	< 0.003	0.015	0.1	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.94	0.002	0.018	< 0.0002	0.097	2.74	< 0.0025	< 0.002		
12/29/2022 (R)	NS	0.071	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-11 down-gradient	11/10/2015	< 0.003	0.007	0.098	< 0.001	< 0.0005	< 0.005	< 0.001	0.61	0.00064	< 0.01	< 0.0002	0.0600	0.736	< 0.0025	< 0.002	
	2/16/2016	< 0.003	0.0059	0.11	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.68	< 0.0005	0.012	< 0.0002	0.078	1.14	< 0.0025	< 0.002	
	5/25/2016	< 0.003	0.0073	0.093	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.75	< 0.0005	< 0.01	< 0.0002	0.083	0.775	< 0.0025	< 0.002	
	8/10/2016	< 0.003	0.0072	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.72	< 0.0005	< 0.010	< 0.0002	0.087	0.807	< 0.0025	< 0.002	
	10/26/2016	< 0.003	0.0082	0.096	< 0.001	< 0.0005	< 0.005	< 0.001	0.53	0.00052	< 0.01	< 0.0002	0.043	0.51	< 0.0025	< 0.002	
	2/1/2017	< 0.003	0.011	0.15	* < 0.001	< 0.0005	< 0.005	< 0.001	0.65	< 0.0005	< 0.01	< 0.0002	0.076	0.909	< 0.0025	< 0.002	
	5/10/2017	< 0.003	0.014	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	0.46	< 0.0005	< 0.01	< 0.0002	0.074	1.03	< 0.0025	< 0.002	
	6/27/2017	< 0.003	0.0058	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.59	< 0.0005	< 0.01	< 0.0002	0.069	0.692	< 0.0025	< 0.002	
	9/7/2017	< 0.003	0.0074	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.58	< 0.0005	< 0.01	< 0.0002	0.067	0.676	< 0.0025	< 0.002	
	11/15/2017	< 0.003	0.0082	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	0.65	< 0.0005	< 0.01	< 0.0002	0.075	1.04	< 0.0025	< 0.002	
	5/3/2018	NA	NA	NA	NA	NA	NA	NA	0.69	NA	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	< 0.003	0.0067	0.16	^1+ < 0.001	< 0.0005	< 0.005	< 0.001	0.74	< 0.0005	< 0.01	< 0.0002	0.077	1.29	< 0.0025	< 0.002	
	11/23/2021	< 0.003	0.0085	0.11	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.48	< 0.0005	< 0.01	< 0.0002	0.025	2.35	< 0.0025	< 0.002	
	2/23/2022	< 0.003	0.013	0.12	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.38	0.0006	0.011	< 0.0002	0.031	1.65	< 0.0025	< 0.002	
	6/13/2022	< 0.003	0.0088	0.17	< 0.001	< 0.0005	< 0.005	0.0022	0.4	0.0018	0.011	< 0.0002	0.058	1.44	< 0.0025	< 0.002	
	GWPS	NS	0.01	2.0	NS	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS	
8/23/2022	< 0.003	0.0082	0.1	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	0.5	< 0.0005	< 0.01	< 0.0002	0.033	2.0	< 0.0025	< 0.002		
11/16/2022	< 0.003	0.013	0.1	< ^+ 0.001	< 0.0005	< 0.005	0.0015	0.7	0.0014	0.01	< 0.0002	0.052	1.6	< 0.0025	< 0.002		
12/29/2022 (R)	NS	0.015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MW-12 down-gradient	11/10/2015	< 0.003	0.0016	0.11	< 0.001	< 0.0005	< 0.005	< 0.001	0.59	< 0.0005	0.012	< 0.0002	0.034	0.8139	< 0.0025	< 0.002	
	2/16/2016	< 0.003	0.0013	0.084	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.52	< 0.0005	0.015	< 0.0002	0.031	< 0.407	< 0.0025	< 0.002	
	5/25/2016	< 0.003	0.0013	0.12	^ < 0.001	< 0.0005	< 0.005	< 0.001	0.54	0.00063	0.014	< 0.0002	0.03	0.41	0.0026	< 0.002	
	8/10/2016	< 0.003	0.0017	0.12	< 0.001	< 0.0005	< 0.005	< 0.001	0.49	0.0006	0.017	< 0.0002	0.04	< 0.426	0.0077	< 0.002	
	10/26/2016	< 0.003	0.0016	0.11	< 0.001	< 0.0005	0.025	< 0.001	0.49	< 0.0005	0.013	< 0.0002	0.036	< 0.664	< 0.0025	< 0.002	
	2/1/2017	< 0.003	0.0017	0.11	* < 0.001	< 0.0005	< 0.005	< 0.001	0.48	0.00065	0.013	< 0.0002	0.023	0.949	< 0.0025	< 0.002	
	5/10/2017	< 0.003	0.0013	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	0.3	< 0.0005	0.012	< 0.0002	0.029	< 0.464	0.017	< 0.002	
	6/27/2017	< 0.003	0.0014	0.14	< 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.017	< 0.0002	0.03	0.455	0.0032	< 0.002	
	9/6/2017	< 0.003	0.0017	0.13	< 0.001	< 0.0005	< 0.005	< 0.001	0.49	< 0.0005	0.014	< 0.0002	0.032	< 0.317	0.0043	< 0.002	
	11/15/2017	< 0.003	0.0054	0.034	< 0.001	< 0.0005	< 0.005	< 0.001	0.47	< 0.0005	< 0.01	< 0.0002	0.11	0.434	< 0.0025	< 0.002	
	5/3/2018	NA	NA	NA	NA	NA	NA	NA	0.47	NA	NA	NA	NA	NA	NA	NA	NA
	5/25/2021	< 0.003	0.0017	0.14	^1+ < 0.001	< 0.0005	< 0.005	0.001	0.49	< 0.00085	0.014	< 0.0002	0.029	0.529	< 0.0025	< 0.002	
	11/23/2021	< 0.003	0.002	0.15	< ^1+ 0.001	< 0.0005	< 0.005	< 0.001	0.44	< 0.0005	0.014	< 0.0002	0.022	0.580	0.0055	< 0.002	
	2/24/2022	< 0.003	0.0025	0.27	< ^1+ 0.001	< 0.0005	< 0.005	0.0011	0.4	0.0016	0.018	< 0.0002	0.024	< 1.620	0.0061	< 0.002	
	6/13/2022	< 0.003	0.0015	0.15	< 0.001	< 0.0005	< 0.005	< 0.001	0.45	< 0.0005	0.012	< 0.0002	0.024	0.957	0.0045	< 0.002	
	GWPS	NS	0.01	2.0	NS	NS	NS	0.006	4.0	0.015	0.04	NS	0.1	5.0	0.056	NS	
8/23/2022	< 0.003	0.0011	0.2	< 0.001	< ^1+ 0.0005	< 0.005	< 0.001	0.4	< 0.0005	0.013	< 0.0002	0.015	0.7	0.0086	< 0.002		
11/16/2022	< 0.003	0.0017	0.14	< ^+ 0.001	< 0.0005	< 0.005	< 0.001	0.97	< 0.0005	0.015	< 0.0002	0.029	< 0.139	< 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.
Italics - Assessment Monitoring Conducted After Identification of Detected Appendix IV Compounds.

NS - No Standard
 DNYA - Data Not Yet Available
 R - Resample
 GWPS -

APPENDIX A
Analytical Data Packages

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212711-1
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:
3/24/2022 1:13:12 PM

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

LINKS

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

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



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Case Narrative

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

Job ID: 500-212711-1

Job ID: 500-212711-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-212711-1**

Comments

No additional comments.

Receipt

The samples were received on 2/22/2022 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were -0.3° C, 3.1° C, 3.7° C, 4.3° C, 4.7° C and 5.1° C.

Metals

Method 6020A: The initial low level continuing calibration verification (ICVL) associated with batch 500-645249 recovered above the upper control limit for Beryllium. The samples associated with this ICVL were non-detects for the affected analyte; therefore, the data have been reported.

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

General Chemistry

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



Method Summary

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

Job ID: 500-212711-1

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:

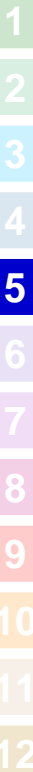
TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

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

Job ID: 500-212711-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212711-1	MW-01	Water	02/21/22 13:20	02/22/22 13:40
500-212711-2	MW-02	Water	02/21/22 15:05	02/22/22 13:40
500-212711-3	Duplicate-1	Water	02/21/22 00:00	02/22/22 13:40
500-212711-4	MW-06	Water	02/22/22 09:50	02/23/22 14:51
500-212711-5	MW-07	Water	02/22/22 11:25	02/23/22 14:51
500-212711-6	MW-09	Water	02/22/22 12:55	02/23/22 14:51
500-212711-7	MW-15	Water	02/22/22 14:30	02/23/22 14:51
500-212711-8	MW-03	Water	02/24/22 12:25	02/25/22 12:05
500-212711-9	MW-04	Water	02/24/22 11:45	02/25/22 12:05
500-212711-10	MW-05	Water	02/24/22 13:15	02/25/22 12:05
500-212711-11	MW-08	Water	02/24/22 15:20	02/25/22 12:05
500-212711-12	MW-10	Water	02/24/22 09:30	02/25/22 12:05
500-212711-13	MW-11	Water	02/23/22 14:20	02/25/22 12:05
500-212711-14	MW-12	Water	02/24/22 14:15	02/25/22 12:05
500-212711-15	MW-13	Water	02/23/22 11:22	02/25/22 12:05
500-212711-16	MW-14	Water	02/23/22 11:00	02/25/22 12:05
500-212711-17	Duplicate	Water	02/24/22 00:00	02/25/22 12:05



Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-01
Date Collected: 02/21/22 13:20
Date Received: 02/22/22 13:40

Lab Sample ID: 500-212711-1
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		02/25/22 08:29	02/28/22 17:27	1
Arsenic	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:27	1
Barium	0.086		0.0025		mg/L		02/25/22 08:29	02/28/22 17:27	1
Beryllium	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:27	1
Boron	2.0		0.050		mg/L		02/25/22 08:29	02/28/22 17:27	1
Cadmium	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:27	1
Calcium	190		0.20		mg/L		02/25/22 08:29	02/28/22 17:27	1
Chromium	<0.0050		0.0050		mg/L		02/25/22 08:29	02/28/22 17:27	1
Cobalt	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:27	1
Lead	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:27	1
Lithium	0.032		0.0020		mg/L		02/25/22 08:29	02/28/22 17:27	1
Molybdenum	0.011		0.0050		mg/L		02/25/22 08:29	02/28/22 17:27	1
Selenium	0.0079		0.0025		mg/L		02/25/22 08:29	02/28/22 17:27	1
Thallium	<0.0020		0.0020		mg/L		02/25/22 08:29	02/28/22 17:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 09:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			02/23/22 05:02	1
Chloride	26		2.0		mg/L			03/15/22 14:46	1
Fluoride	0.55		0.10		mg/L			03/03/22 14:31	1
Sulfate	370		50		mg/L			03/15/22 17:01	10

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-02
Date Collected: 02/21/22 15:05
Date Received: 02/22/22 13:40

Lab Sample ID: 500-212711-2
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		02/25/22 08:29	02/28/22 17:30	1
Arsenic	0.010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:30	1
Barium	0.060		0.0025		mg/L		02/25/22 08:29	02/28/22 17:30	1
Beryllium	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:30	1
Boron	4.9		0.050		mg/L		02/25/22 08:29	02/28/22 17:30	1
Cadmium	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:30	1
Calcium	92		0.20		mg/L		02/25/22 08:29	02/28/22 17:30	1
Chromium	<0.0050		0.0050		mg/L		02/25/22 08:29	02/28/22 17:30	1
Cobalt	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:30	1
Lead	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:30	1
Lithium	0.044		0.0020		mg/L		02/25/22 08:29	02/28/22 17:30	1
Molybdenum	0.083		0.0050		mg/L		02/25/22 08:29	02/28/22 17:30	1
Selenium	<0.0025		0.0025		mg/L		02/25/22 08:29	02/28/22 17:30	1
Thallium	<0.0020		0.0020		mg/L		02/25/22 08:29	02/28/22 17:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 09:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			02/23/22 05:04	1
Chloride	32		2.0		mg/L			03/15/22 14:47	1
Fluoride	0.43		0.10		mg/L			03/03/22 14:34	1
Sulfate	550		100		mg/L			03/17/22 14:52	20

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: Duplicate-1

Lab Sample ID: 500-212711-3

Date Collected: 02/21/22 00:00

Matrix: Water

Date Received: 02/22/22 13:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/25/22 08:29	02/28/22 17:34	1
Arsenic	0.011		0.0010		mg/L		02/25/22 08:29	02/28/22 17:34	1
Barium	0.060		0.0025		mg/L		02/25/22 08:29	02/28/22 17:34	1
Beryllium	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:34	1
Boron	4.8		0.050		mg/L		02/25/22 08:29	02/28/22 17:34	1
Cadmium	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:34	1
Calcium	92		0.20		mg/L		02/25/22 08:29	02/28/22 17:34	1
Chromium	<0.0050		0.0050		mg/L		02/25/22 08:29	02/28/22 17:34	1
Cobalt	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:34	1
Lead	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:34	1
Lithium	0.043		0.0020		mg/L		02/25/22 08:29	02/28/22 17:34	1
Molybdenum	0.084		0.0050		mg/L		02/25/22 08:29	02/28/22 17:34	1
Selenium	<0.0025		0.0025		mg/L		02/25/22 08:29	02/28/22 17:34	1
Thallium	<0.0020		0.0020		mg/L		02/25/22 08:29	02/28/22 17:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			02/23/22 05:07	1
Chloride	32		2.0		mg/L			03/15/22 14:47	1
Fluoride	0.43		0.10		mg/L			03/03/22 14:38	1
Sulfate	560		100		mg/L			03/15/22 17:12	20

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-06
Date Collected: 02/22/22 09:50
Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-4
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		02/25/22 08:29	02/28/22 17:37	1
Arsenic	0.0019		0.0010		mg/L		02/25/22 08:29	02/28/22 17:37	1
Barium	0.090		0.0025		mg/L		02/25/22 08:29	02/28/22 17:37	1
Beryllium	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:37	1
Boron	2.8		0.050		mg/L		02/25/22 08:29	02/28/22 17:37	1
Cadmium	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:37	1
Calcium	130		0.20		mg/L		02/25/22 08:29	02/28/22 17:37	1
Chromium	<0.0050		0.0050		mg/L		02/25/22 08:29	02/28/22 17:37	1
Cobalt	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:37	1
Lead	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:37	1
Lithium	0.018		0.0020		mg/L		02/25/22 08:29	02/28/22 17:37	1
Molybdenum	0.033		0.0050		mg/L		02/25/22 08:29	02/28/22 17:37	1
Selenium	0.050		0.0025		mg/L		02/25/22 08:29	02/28/22 17:37	1
Thallium	<0.0020		0.0020		mg/L		02/25/22 08:29	02/28/22 17:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			02/24/22 05:42	1
Chloride	35		2.0		mg/L			03/15/22 14:47	1
Fluoride	0.33		0.10		mg/L			03/03/22 14:41	1
Sulfate	260		50		mg/L			03/15/22 17:02	10

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-07
Date Collected: 02/22/22 11:25
Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-5
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		02/25/22 08:29	02/28/22 17:41	1
Arsenic	0.0012		0.0010		mg/L		02/25/22 08:29	02/28/22 17:41	1
Barium	0.059		0.0025		mg/L		02/25/22 08:29	02/28/22 17:41	1
Beryllium	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:41	1
Boron	2.6		0.050		mg/L		02/25/22 08:29	02/28/22 17:41	1
Cadmium	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:41	1
Calcium	160		0.20		mg/L		02/25/22 08:29	02/28/22 17:41	1
Chromium	<0.0050		0.0050		mg/L		02/25/22 08:29	02/28/22 17:41	1
Cobalt	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:41	1
Lead	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:41	1
Lithium	0.022		0.0020		mg/L		02/25/22 08:29	02/28/22 17:41	1
Molybdenum	0.016		0.0050		mg/L		02/25/22 08:29	02/28/22 17:41	1
Selenium	<0.0025		0.0025		mg/L		02/25/22 08:29	02/28/22 17:41	1
Thallium	<0.0020		0.0020		mg/L		02/25/22 08:29	02/28/22 17:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			02/24/22 05:50	1
Chloride	130		10		mg/L			03/15/22 14:48	5
Fluoride	0.42		0.10		mg/L			03/03/22 14:54	1
Sulfate	290		50		mg/L			03/15/22 17:02	10

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-09

Lab Sample ID: 500-212711-6

Date Collected: 02/22/22 12:55

Matrix: Water

Date Received: 02/23/22 14:51

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		02/25/22 08:29	02/28/22 17:44	1
Arsenic	0.0070		0.0010		mg/L		02/25/22 08:29	02/28/22 17:44	1
Barium	0.037		0.0025		mg/L		02/25/22 08:29	02/28/22 17:44	1
Beryllium	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:44	1
Boron	1.5		0.050		mg/L		02/25/22 08:29	02/28/22 17:44	1
Cadmium	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:44	1
Calcium	49		0.20		mg/L		02/25/22 08:29	02/28/22 17:44	1
Chromium	<0.0050		0.0050		mg/L		02/25/22 08:29	02/28/22 17:44	1
Cobalt	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:44	1
Lead	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:44	1
Lithium	0.0065		0.0020		mg/L		02/25/22 08:29	02/28/22 17:44	1
Molybdenum	0.051		0.0050		mg/L		02/25/22 08:29	02/28/22 17:44	1
Selenium	<0.0025		0.0025		mg/L		02/25/22 08:29	02/28/22 17:44	1
Thallium	<0.0020		0.0020		mg/L		02/25/22 08:29	02/28/22 17:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	900		10		mg/L			02/24/22 05:55	1
Chloride	250		20		mg/L			03/15/22 14:48	10
Fluoride	0.40		0.10		mg/L			03/03/22 14:58	1
Sulfate	160		25		mg/L			03/17/22 14:52	5

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-15

Lab Sample ID: 500-212711-7

Date Collected: 02/22/22 14:30

Matrix: Water

Date Received: 02/23/22 14:51

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		03/01/22 09:01	03/01/22 16:48	1
Arsenic	0.0030		0.0010		mg/L		03/01/22 09:01	03/01/22 16:48	1
Barium	0.12		0.0025		mg/L		03/01/22 09:01	03/01/22 16:48	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 16:48	1
Boron	3.3		0.50		mg/L		03/01/22 09:01	03/02/22 12:37	10
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 16:48	1
Calcium	230		0.20		mg/L		03/01/22 09:01	03/01/22 16:48	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 16:48	1
Cobalt	0.0012		0.0010		mg/L		03/01/22 09:01	03/01/22 16:48	1
Lead	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 16:48	1
Lithium	0.021		0.0020		mg/L		03/01/22 09:01	03/01/22 16:48	1
Molybdenum	0.020		0.0050		mg/L		03/01/22 09:01	03/01/22 16:48	1
Selenium	<0.0025		0.0025		mg/L		03/01/22 09:01	03/01/22 16:48	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 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		03/03/22 13:40	03/04/22 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			02/24/22 05:57	1
Chloride	100		10		mg/L			03/15/22 14:49	5
Fluoride	0.38		0.10		mg/L			03/03/22 15:01	1
Sulfate	620		100		mg/L			03/17/22 14:53	20

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-03

Lab Sample ID: 500-212711-8

Date Collected: 02/24/22 12:25

Matrix: Water

Date Received: 02/25/22 12:05

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		03/01/22 09:01	03/01/22 17:06	1
Arsenic	0.0015		0.0010		mg/L		03/01/22 09:01	03/01/22 17:06	1
Barium	0.12		0.0025		mg/L		03/01/22 09:01	03/01/22 17:06	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:06	1
Boron	2.6		0.50		mg/L		03/01/22 09:01	03/02/22 13:02	10
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:06	1
Calcium	220		0.20		mg/L		03/01/22 09:01	03/01/22 17:06	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:06	1
Cobalt	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 17:06	1
Lead	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:06	1
Lithium	0.032		0.0020		mg/L		03/01/22 09:01	03/01/22 17:06	1
Molybdenum	0.014		0.0050		mg/L		03/01/22 09:01	03/01/22 17:06	1
Selenium	0.046		0.0025		mg/L		03/01/22 09:01	03/01/22 17:06	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			02/27/22 19:59	1
Chloride	18		2.0		mg/L			03/15/22 14:49	1
Fluoride	0.30		0.10		mg/L			03/03/22 15:06	1
Sulfate	360		50		mg/L			03/17/22 14:53	10

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-04
Date Collected: 02/24/22 11:45
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-9
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		03/01/22 09:01	03/01/22 17:09	1
Arsenic	0.020		0.0010		mg/L		03/01/22 09:01	03/01/22 17:09	1
Barium	0.039		0.0025		mg/L		03/01/22 09:01	03/01/22 17:09	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:09	1
Boron	4.7		1.0		mg/L		03/01/22 09:01	03/02/22 13:05	20
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:09	1
Calcium	350		4.0		mg/L		03/01/22 09:01	03/02/22 13:05	20
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:09	1
Cobalt	0.0017		0.0010		mg/L		03/01/22 09:01	03/01/22 17:09	1
Lead	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:09	1
Lithium	0.020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:09	1
Molybdenum	0.028		0.0050		mg/L		03/01/22 09:01	03/01/22 17:09	1
Selenium	0.090		0.0025		mg/L		03/01/22 09:01	03/01/22 17:09	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2100		10		mg/L			02/27/22 20:02	1
Chloride	16		2.0		mg/L			03/15/22 14:49	1
Fluoride	0.37		0.10		mg/L			03/03/22 15:09	1
Sulfate	950		100		mg/L			03/17/22 14:53	20

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-05

Lab Sample ID: 500-212711-10

Date Collected: 02/24/22 13:15

Matrix: Water

Date Received: 02/25/22 12:05

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		03/01/22 09:01	03/01/22 17:13	1
Arsenic	0.0092		0.0010		mg/L		03/01/22 09:01	03/01/22 17:13	1
Barium	0.077		0.0025		mg/L		03/01/22 09:01	03/01/22 17:13	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:13	1
Boron	4.9		1.0		mg/L		03/01/22 09:01	03/02/22 13:09	20
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:13	1
Calcium	210		0.20		mg/L		03/01/22 09:01	03/01/22 17:13	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:13	1
Cobalt	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 17:13	1
Lead	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:13	1
Lithium	0.014		0.0020		mg/L		03/01/22 09:01	03/01/22 17:13	1
Molybdenum	0.059		0.0050		mg/L		03/01/22 09:01	03/01/22 17:13	1
Selenium	0.048		0.0025		mg/L		03/01/22 09:01	03/01/22 17:13	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:13	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			02/27/22 20:04	1
Chloride	25		2.0		mg/L			03/15/22 14:49	1
Fluoride	0.39		0.10		mg/L			03/03/22 15:12	1
Sulfate	660		100		mg/L			03/15/22 17:03	20

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-08

Lab Sample ID: 500-212711-11

Date Collected: 02/24/22 15:20

Matrix: Water

Date Received: 02/25/22 12:05

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		03/01/22 09:01	03/01/22 17:23	1
Arsenic	0.0060		0.0010		mg/L		03/01/22 09:01	03/01/22 17:23	1
Barium	0.061		0.0025		mg/L		03/01/22 09:01	03/01/22 17:23	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:23	1
Boron	1.6		0.25		mg/L		03/01/22 09:01	03/02/22 13:12	5
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:23	1
Calcium	170		0.20		mg/L		03/01/22 09:01	03/01/22 17:23	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:23	1
Cobalt	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 17:23	1
Lead	0.00068		0.00050		mg/L		03/01/22 09:01	03/01/22 17:23	1
Lithium	0.0088		0.0020		mg/L		03/01/22 09:01	03/01/22 17:23	1
Molybdenum	0.026		0.0050		mg/L		03/01/22 09:01	03/01/22 17:23	1
Selenium	0.048		0.0025		mg/L		03/01/22 09:01	03/01/22 17:23	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			02/27/22 20:07	1
Chloride	210		20		mg/L			03/15/22 14:49	10
Fluoride	0.52		0.10		mg/L			03/03/22 15:16	1
Sulfate	270		50		mg/L			03/17/22 14:53	10

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-10

Lab Sample ID: 500-212711-12

Date Collected: 02/24/22 09:30

Matrix: Water

Date Received: 02/25/22 12:05

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		03/01/22 09:01	03/01/22 17:27	1
Arsenic	0.0072		0.0010		mg/L		03/01/22 09:01	03/01/22 17:27	1
Barium	0.10		0.0025		mg/L		03/01/22 09:01	03/01/22 17:27	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:27	1
Boron	2.6		0.50		mg/L		03/01/22 09:01	03/02/22 13:16	10
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:27	1
Calcium	130		0.20		mg/L		03/01/22 09:01	03/01/22 17:27	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:27	1
Cobalt	0.0012		0.0010		mg/L		03/01/22 09:01	03/01/22 17:27	1
Lead	0.0010		0.00050		mg/L		03/01/22 09:01	03/01/22 17:27	1
Lithium	0.014		0.0020		mg/L		03/01/22 09:01	03/01/22 17:27	1
Molybdenum	0.043		0.0050		mg/L		03/01/22 09:01	03/01/22 17:27	1
Selenium	<0.0025		0.0025		mg/L		03/01/22 09:01	03/01/22 17:27	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10		mg/L			02/27/22 20:10	1
Chloride	120		10		mg/L			03/15/22 14:50	5
Fluoride	0.53		0.10		mg/L			03/03/22 15:20	1
Sulfate	170		25		mg/L			03/17/22 14:54	5

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-11

Lab Sample ID: 500-212711-13

Date Collected: 02/23/22 14:20

Matrix: Water

Date Received: 02/25/22 12:05

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		03/01/22 09:01	03/01/22 17:30	1
Arsenic	0.013		0.0010		mg/L		03/01/22 09:01	03/01/22 17:30	1
Barium	0.12		0.0025		mg/L		03/01/22 09:01	03/01/22 17:30	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:30	1
Boron	1.8		0.25		mg/L		03/01/22 09:01	03/02/22 13:19	5
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:30	1
Calcium	130		0.20		mg/L		03/01/22 09:01	03/01/22 17:30	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:30	1
Cobalt	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 17:30	1
Lead	0.00060		0.00050		mg/L		03/01/22 09:01	03/01/22 17:30	1
Lithium	0.011		0.0020		mg/L		03/01/22 09:01	03/01/22 17:30	1
Molybdenum	0.031		0.0050		mg/L		03/01/22 09:01	03/01/22 17:30	1
Selenium	<0.0025		0.0025		mg/L		03/01/22 09:01	03/01/22 17:30	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	760		10		mg/L			02/27/22 20:12	1
Chloride	150		10		mg/L			03/15/22 14:50	5
Fluoride	0.38		0.10		mg/L			03/03/22 15:23	1
Sulfate	91		10		mg/L			03/17/22 14:54	2

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-12
Date Collected: 02/24/22 14:15
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-14
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		03/01/22 09:01	03/01/22 17:34	1
Arsenic	0.0025		0.0010		mg/L		03/01/22 09:01	03/01/22 17:34	1
Barium	0.27		0.0025		mg/L		03/01/22 09:01	03/01/22 17:34	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:34	1
Boron	1.7		0.25		mg/L		03/01/22 09:01	03/02/22 13:23	5
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:34	1
Calcium	150		0.20		mg/L		03/01/22 09:01	03/01/22 17:34	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:34	1
Cobalt	0.0011		0.0010		mg/L		03/01/22 09:01	03/01/22 17:34	1
Lead	0.0016		0.00050		mg/L		03/01/22 09:01	03/01/22 17:34	1
Lithium	0.018		0.0020		mg/L		03/01/22 09:01	03/01/22 17:34	1
Molybdenum	0.024		0.0050		mg/L		03/01/22 09:01	03/01/22 17:34	1
Selenium	0.0061		0.0025		mg/L		03/01/22 09:01	03/01/22 17:34	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			02/27/22 20:15	1
Chloride	150		10		mg/L			03/15/22 14:50	5
Fluoride	0.40		0.10		mg/L			03/03/22 15:26	1
Sulfate	150		25		mg/L			03/17/22 14:55	5

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-13
Date Collected: 02/23/22 11:22
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-15
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		03/01/22 09:01	03/01/22 17:37	1
Arsenic	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 17:37	1
Barium	0.054		0.0025		mg/L		03/01/22 09:01	03/01/22 17:37	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:37	1
Boron	0.31		0.050		mg/L		03/01/22 09:01	03/02/22 13:26	1
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:37	1
Calcium	75		0.20		mg/L		03/01/22 09:01	03/01/22 17:37	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:37	1
Cobalt	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 17:37	1
Lead	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:37	1
Lithium	0.0066		0.0020		mg/L		03/01/22 09:01	03/01/22 17:37	1
Molybdenum	0.0089		0.0050		mg/L		03/01/22 09:01	03/01/22 17:37	1
Selenium	0.0054		0.0025		mg/L		03/01/22 09:01	03/01/22 17:37	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	590		10		mg/L			02/27/22 20:17	1
Chloride	95		10		mg/L			03/15/22 14:51	5
Fluoride	0.34		0.10		mg/L			03/03/22 15:40	1
Sulfate	66		10		mg/L			03/17/22 14:56	2

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: MW-14

Lab Sample ID: 500-212711-16

Date Collected: 02/23/22 11:00

Matrix: Water

Date Received: 02/25/22 12:05

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		03/01/22 09:01	03/01/22 17:41	1
Arsenic	0.0028		0.0010		mg/L		03/01/22 09:01	03/01/22 17:41	1
Barium	0.12		0.0025		mg/L		03/01/22 09:01	03/01/22 17:41	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:41	1
Boron	3.8		0.50		mg/L		03/01/22 09:01	03/02/22 13:30	10
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:41	1
Calcium	110		0.20		mg/L		03/01/22 09:01	03/01/22 17:41	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:41	1
Cobalt	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 17:41	1
Lead	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:41	1
Lithium	0.024		0.0020		mg/L		03/01/22 09:01	03/01/22 17:41	1
Molybdenum	0.059		0.0050		mg/L		03/01/22 09:01	03/01/22 17:41	1
Selenium	<0.0025		0.0025		mg/L		03/01/22 09:01	03/01/22 17:41	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			02/27/22 20:20	1
Chloride	110		10		mg/L			03/15/22 14:52	5
Fluoride	0.58		0.10		mg/L			03/03/22 15:43	1
Sulfate	440		50		mg/L			03/17/22 14:56	10

Client Sample Results

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

Job ID: 500-212711-1

Client Sample ID: Duplicate
Date Collected: 02/24/22 00:00
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-17
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		03/01/22 09:01	03/01/22 17:44	1
Arsenic	0.0071		0.0010		mg/L		03/01/22 09:01	03/01/22 17:44	1
Barium	0.10		0.0025		mg/L		03/01/22 09:01	03/01/22 17:44	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 17:44	1
Boron	2.7		0.50		mg/L		03/01/22 09:01	03/02/22 13:33	10
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 17:44	1
Calcium	130		0.20		mg/L		03/01/22 09:01	03/01/22 17:44	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 17:44	1
Cobalt	0.0012		0.0010		mg/L		03/01/22 09:01	03/01/22 17:44	1
Lead	0.00085		0.00050		mg/L		03/01/22 09:01	03/01/22 17:44	1
Lithium	0.013		0.0020		mg/L		03/01/22 09:01	03/01/22 17:44	1
Molybdenum	0.042		0.0050		mg/L		03/01/22 09:01	03/01/22 17:44	1
Selenium	<0.0025		0.0025		mg/L		03/01/22 09:01	03/01/22 17:44	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 17:44	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 10:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	800		10		mg/L			02/27/22 21:19	1
Chloride	120		10		mg/L			03/15/22 14:52	5
Fluoride	0.54		0.10		mg/L			03/03/22 15:46	1
Sulfate	170		25		mg/L			03/17/22 14:56	5

Definitions/Glossary

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

Job ID: 500-212711-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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: Will County CCR

Job ID: 500-212711-1

Metals

Prep Batch: 644498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total Recoverable	Water	3005A	
500-212711-2	MW-02	Total Recoverable	Water	3005A	
500-212711-3	Duplicate-1	Total Recoverable	Water	3005A	
500-212711-4	MW-06	Total Recoverable	Water	3005A	
500-212711-5	MW-07	Total Recoverable	Water	3005A	
500-212711-6	MW-09	Total Recoverable	Water	3005A	
MB 500-644498/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-644498/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 645026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-7	MW-15	Total Recoverable	Water	3005A	
500-212711-8	MW-03	Total Recoverable	Water	3005A	
500-212711-9	MW-04	Total Recoverable	Water	3005A	
500-212711-10	MW-05	Total Recoverable	Water	3005A	
500-212711-11	MW-08	Total Recoverable	Water	3005A	
500-212711-12	MW-10	Total Recoverable	Water	3005A	
500-212711-13	MW-11	Total Recoverable	Water	3005A	
500-212711-14	MW-12	Total Recoverable	Water	3005A	
500-212711-15	MW-13	Total Recoverable	Water	3005A	
500-212711-16	MW-14	Total Recoverable	Water	3005A	
500-212711-17	Duplicate	Total Recoverable	Water	3005A	
MB 500-645026/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-645026/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-212711-7 MS	MW-15	Total Recoverable	Water	3005A	
500-212711-7 MSD	MW-15	Total Recoverable	Water	3005A	
500-212711-7 DU	MW-15	Total Recoverable	Water	3005A	

Analysis Batch: 645038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total Recoverable	Water	6020A	644498
500-212711-2	MW-02	Total Recoverable	Water	6020A	644498
500-212711-3	Duplicate-1	Total Recoverable	Water	6020A	644498
500-212711-4	MW-06	Total Recoverable	Water	6020A	644498
500-212711-5	MW-07	Total Recoverable	Water	6020A	644498
500-212711-6	MW-09	Total Recoverable	Water	6020A	644498
MB 500-644498/1-A	Method Blank	Total Recoverable	Water	6020A	644498
LCS 500-644498/2-A	Lab Control Sample	Total Recoverable	Water	6020A	644498

Analysis Batch: 645249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-7	MW-15	Total Recoverable	Water	6020A	645026
500-212711-8	MW-03	Total Recoverable	Water	6020A	645026
500-212711-9	MW-04	Total Recoverable	Water	6020A	645026
500-212711-10	MW-05	Total Recoverable	Water	6020A	645026
500-212711-11	MW-08	Total Recoverable	Water	6020A	645026
500-212711-12	MW-10	Total Recoverable	Water	6020A	645026
500-212711-13	MW-11	Total Recoverable	Water	6020A	645026
500-212711-14	MW-12	Total Recoverable	Water	6020A	645026
500-212711-15	MW-13	Total Recoverable	Water	6020A	645026
500-212711-16	MW-14	Total Recoverable	Water	6020A	645026

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QC Association Summary

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

Job ID: 500-212711-1

Metals (Continued)

Analysis Batch: 645249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-17	Duplicate	Total Recoverable	Water	6020A	645026
MB 500-645026/1-A	Method Blank	Total Recoverable	Water	6020A	645026
LCS 500-645026/2-A	Lab Control Sample	Total Recoverable	Water	6020A	645026
500-212711-7 MS	MW-15	Total Recoverable	Water	6020A	645026
500-212711-7 MSD	MW-15	Total Recoverable	Water	6020A	645026
500-212711-7 DU	MW-15	Total Recoverable	Water	6020A	645026

Analysis Batch: 645443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-7	MW-15	Total Recoverable	Water	6020A	645026
500-212711-8	MW-03	Total Recoverable	Water	6020A	645026
500-212711-9	MW-04	Total Recoverable	Water	6020A	645026
500-212711-10	MW-05	Total Recoverable	Water	6020A	645026
500-212711-11	MW-08	Total Recoverable	Water	6020A	645026
500-212711-12	MW-10	Total Recoverable	Water	6020A	645026
500-212711-13	MW-11	Total Recoverable	Water	6020A	645026
500-212711-14	MW-12	Total Recoverable	Water	6020A	645026
500-212711-15	MW-13	Total Recoverable	Water	6020A	645026
500-212711-16	MW-14	Total Recoverable	Water	6020A	645026
500-212711-17	Duplicate	Total Recoverable	Water	6020A	645026
MB 500-645026/1-A	Method Blank	Total Recoverable	Water	6020A	645026
LCS 500-645026/2-A	Lab Control Sample	Total Recoverable	Water	6020A	645026
500-212711-7 MS	MW-15	Total Recoverable	Water	6020A	645026
500-212711-7 MSD	MW-15	Total Recoverable	Water	6020A	645026
500-212711-7 DU	MW-15	Total Recoverable	Water	6020A	645026

Prep Batch: 645524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total/NA	Water	7470A	
500-212711-2	MW-02	Total/NA	Water	7470A	
500-212711-3	Duplicate-1	Total/NA	Water	7470A	
500-212711-4	MW-06	Total/NA	Water	7470A	
500-212711-5	MW-07	Total/NA	Water	7470A	
500-212711-6	MW-09	Total/NA	Water	7470A	
500-212711-7	MW-15	Total/NA	Water	7470A	
500-212711-8	MW-03	Total/NA	Water	7470A	
500-212711-9	MW-04	Total/NA	Water	7470A	
500-212711-10	MW-05	Total/NA	Water	7470A	
500-212711-11	MW-08	Total/NA	Water	7470A	
500-212711-12	MW-10	Total/NA	Water	7470A	
500-212711-13	MW-11	Total/NA	Water	7470A	
500-212711-14	MW-12	Total/NA	Water	7470A	
500-212711-15	MW-13	Total/NA	Water	7470A	
500-212711-16	MW-14	Total/NA	Water	7470A	
500-212711-17	Duplicate	Total/NA	Water	7470A	
MB 500-645524/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-645524/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-212711-11 MS	MW-08	Total/NA	Water	7470A	
500-212711-11 MSD	MW-08	Total/NA	Water	7470A	
500-212711-11 DU	MW-08	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 500-212711-1

Metals

Analysis Batch: 645683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total/NA	Water	7470A	645524
500-212711-2	MW-02	Total/NA	Water	7470A	645524
500-212711-3	Duplicate-1	Total/NA	Water	7470A	645524
500-212711-4	MW-06	Total/NA	Water	7470A	645524
500-212711-5	MW-07	Total/NA	Water	7470A	645524
500-212711-6	MW-09	Total/NA	Water	7470A	645524
500-212711-7	MW-15	Total/NA	Water	7470A	645524
500-212711-8	MW-03	Total/NA	Water	7470A	645524
500-212711-9	MW-04	Total/NA	Water	7470A	645524
500-212711-10	MW-05	Total/NA	Water	7470A	645524
500-212711-11	MW-08	Total/NA	Water	7470A	645524
500-212711-12	MW-10	Total/NA	Water	7470A	645524
500-212711-13	MW-11	Total/NA	Water	7470A	645524
500-212711-14	MW-12	Total/NA	Water	7470A	645524
500-212711-15	MW-13	Total/NA	Water	7470A	645524
500-212711-16	MW-14	Total/NA	Water	7470A	645524
500-212711-17	Duplicate	Total/NA	Water	7470A	645524
MB 500-645524/12-A	Method Blank	Total/NA	Water	7470A	645524
LCS 500-645524/13-A	Lab Control Sample	Total/NA	Water	7470A	645524
500-212711-11 MS	MW-08	Total/NA	Water	7470A	645524
500-212711-11 MSD	MW-08	Total/NA	Water	7470A	645524
500-212711-11 DU	MW-08	Total/NA	Water	7470A	645524

General Chemistry

Analysis Batch: 643902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total/NA	Water	SM 2540C	
500-212711-2	MW-02	Total/NA	Water	SM 2540C	
500-212711-3	Duplicate-1	Total/NA	Water	SM 2540C	
MB 500-643902/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-643902/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 644165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-4	MW-06	Total/NA	Water	SM 2540C	
500-212711-5	MW-07	Total/NA	Water	SM 2540C	
500-212711-6	MW-09	Total/NA	Water	SM 2540C	
500-212711-7	MW-15	Total/NA	Water	SM 2540C	
MB 500-644165/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-644165/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-212711-4 MS	MW-06	Total/NA	Water	SM 2540C	
500-212711-4 DU	MW-06	Total/NA	Water	SM 2540C	
500-212711-5 DU	MW-07	Total/NA	Water	SM 2540C	

Analysis Batch: 644711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-8	MW-03	Total/NA	Water	SM 2540C	
500-212711-9	MW-04	Total/NA	Water	SM 2540C	
500-212711-10	MW-05	Total/NA	Water	SM 2540C	
500-212711-11	MW-08	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-212711-1

General Chemistry (Continued)

Analysis Batch: 644711 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-12	MW-10	Total/NA	Water	SM 2540C	
500-212711-13	MW-11	Total/NA	Water	SM 2540C	
500-212711-14	MW-12	Total/NA	Water	SM 2540C	
500-212711-15	MW-13	Total/NA	Water	SM 2540C	
500-212711-16	MW-14	Total/NA	Water	SM 2540C	
MB 500-644711/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-644711/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 644712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-17	Duplicate	Total/NA	Water	SM 2540C	
MB 500-644712/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-644712/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-212711-17 MS	Duplicate	Total/NA	Water	SM 2540C	
500-212711-17 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 645550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total/NA	Water	SM 4500 F C	
500-212711-2	MW-02	Total/NA	Water	SM 4500 F C	
500-212711-3	Duplicate-1	Total/NA	Water	SM 4500 F C	
500-212711-4	MW-06	Total/NA	Water	SM 4500 F C	
500-212711-5	MW-07	Total/NA	Water	SM 4500 F C	
500-212711-6	MW-09	Total/NA	Water	SM 4500 F C	
500-212711-7	MW-15	Total/NA	Water	SM 4500 F C	
500-212711-8	MW-03	Total/NA	Water	SM 4500 F C	
500-212711-9	MW-04	Total/NA	Water	SM 4500 F C	
500-212711-10	MW-05	Total/NA	Water	SM 4500 F C	
500-212711-11	MW-08	Total/NA	Water	SM 4500 F C	
500-212711-12	MW-10	Total/NA	Water	SM 4500 F C	
500-212711-13	MW-11	Total/NA	Water	SM 4500 F C	
500-212711-14	MW-12	Total/NA	Water	SM 4500 F C	
500-212711-15	MW-13	Total/NA	Water	SM 4500 F C	
500-212711-16	MW-14	Total/NA	Water	SM 4500 F C	
500-212711-17	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-645550/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-645550/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 647120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-212711-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-212711-3	Duplicate-1	Total/NA	Water	SM 4500 Cl- E	
500-212711-4	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-212711-5	MW-07	Total/NA	Water	SM 4500 Cl- E	
500-212711-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-212711-7	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-212711-8	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-212711-9	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-212711-10	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-212711-11	MW-08	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

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

Job ID: 500-212711-1

General Chemistry (Continued)

Analysis Batch: 647120 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-12	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-212711-13	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-212711-14	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-212711-15	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-212711-16	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-212711-17	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-647120/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-647120/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-212711-1 MS	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-212711-1 MSD	MW-01	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 647243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-212711-3	Duplicate-1	Total/NA	Water	SM 4500 SO4 E	
500-212711-4	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-212711-5	MW-07	Total/NA	Water	SM 4500 SO4 E	
500-212711-10	MW-05	Total/NA	Water	SM 4500 SO4 E	
MB 500-647243/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-647243/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-212711-1 MS	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-212711-1 MSD	MW-01	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 647597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-212711-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-212711-7	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-212711-8	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-212711-9	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-212711-11	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-212711-12	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-212711-13	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-212711-14	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-212711-15	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-212711-16	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-212711-17	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-647597/126	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-647597/127	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-212711-15 MS	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-212711-15 MSD	MW-13	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-212711-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-644498/1-A
Matrix: Water
Analysis Batch: 645038

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 644498

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/25/22 08:29	02/28/22 17:20	1
Arsenic	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:20	1
Barium	<0.0025		0.0025		mg/L		02/25/22 08:29	02/28/22 17:20	1
Beryllium	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:20	1
Boron	<0.050		0.050		mg/L		02/25/22 08:29	02/28/22 17:20	1
Cadmium	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:20	1
Calcium	<0.20		0.20		mg/L		02/25/22 08:29	02/28/22 17:20	1
Chromium	<0.0050		0.0050		mg/L		02/25/22 08:29	02/28/22 17:20	1
Cobalt	<0.0010		0.0010		mg/L		02/25/22 08:29	02/28/22 17:20	1
Lead	<0.00050		0.00050		mg/L		02/25/22 08:29	02/28/22 17:20	1
Lithium	<0.0020		0.0020		mg/L		02/25/22 08:29	02/28/22 17:20	1
Molybdenum	<0.0050		0.0050		mg/L		02/25/22 08:29	02/28/22 17:20	1
Selenium	<0.0025		0.0025		mg/L		02/25/22 08:29	02/28/22 17:20	1
Thallium	<0.0020		0.0020		mg/L		02/25/22 08:29	02/28/22 17:20	1

Lab Sample ID: LCS 500-644498/2-A
Matrix: Water
Analysis Batch: 645038

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 644498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0925		mg/L		92	80 - 120
Barium	2.00	1.97		mg/L		98	80 - 120
Beryllium	0.0500	0.0497		mg/L		99	80 - 120
Boron	1.00	0.933		mg/L		93	80 - 120
Cadmium	0.0500	0.0503		mg/L		101	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.517		mg/L		103	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Lithium	0.500	0.512		mg/L		102	80 - 120
Molybdenum	1.00	0.969		mg/L		97	80 - 120
Selenium	0.100	0.0974		mg/L		97	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Lab Sample ID: MB 500-645026/1-A
Matrix: Water
Analysis Batch: 645249

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		03/01/22 09:01	03/01/22 16:41	1
Arsenic	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 16:41	1
Barium	<0.0025		0.0025		mg/L		03/01/22 09:01	03/01/22 16:41	1
Beryllium	<0.0010	^1+	0.0010		mg/L		03/01/22 09:01	03/01/22 16:41	1
Cadmium	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 16:41	1
Calcium	<0.20		0.20		mg/L		03/01/22 09:01	03/01/22 16:41	1
Chromium	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 16:41	1
Cobalt	<0.0010		0.0010		mg/L		03/01/22 09:01	03/01/22 16:41	1
Lead	<0.00050		0.00050		mg/L		03/01/22 09:01	03/01/22 16:41	1

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QC Sample Results

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

Job ID: 500-212711-1

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

Lab Sample ID: MB 500-645026/1-A
Matrix: Water
Analysis Batch: 645249

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 16:41	1
Molybdenum	<0.0050		0.0050		mg/L		03/01/22 09:01	03/01/22 16:41	1
Selenium	<0.0025		0.0025		mg/L		03/01/22 09:01	03/01/22 16:41	1
Thallium	<0.0020		0.0020		mg/L		03/01/22 09:01	03/01/22 16:41	1

Lab Sample ID: MB 500-645026/1-A
Matrix: Water
Analysis Batch: 645443

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		03/01/22 09:01	03/02/22 12:31	1

Lab Sample ID: LCS 500-645026/2-A
Matrix: Water
Analysis Batch: 645249

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.487		mg/L		97	80 - 120
Arsenic	0.100	0.0921		mg/L		92	80 - 120
Barium	2.00	1.96		mg/L		98	80 - 120
Beryllium	0.0500	0.0516	^1+	mg/L		103	80 - 120
Cadmium	0.0500	0.0496		mg/L		99	80 - 120
Calcium	10.0	10.2		mg/L		102	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.521		mg/L		104	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.500	0.504		mg/L		101	80 - 120
Molybdenum	1.00	0.952		mg/L		95	80 - 120
Selenium	0.100	0.0972		mg/L		97	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-645026/2-A
Matrix: Water
Analysis Batch: 645443

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.975		mg/L		97	80 - 120

Lab Sample ID: 500-212711-7 MS
Matrix: Water
Analysis Batch: 645249

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.519		mg/L		104	75 - 125
Arsenic	0.0030		0.100	0.102		mg/L		99	75 - 125
Barium	0.12		2.00	2.09		mg/L		98	75 - 125
Beryllium	<0.0010	^1+	0.0500	0.0488	^1+	mg/L		98	75 - 125
Cadmium	<0.00050		0.0500	0.0503		mg/L		101	75 - 125
Calcium	230		10.0	243	4	mg/L		133	75 - 125
Chromium	<0.0050		0.200	0.201		mg/L		100	75 - 125

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QC Sample Results

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

Job ID: 500-212711-1

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

Lab Sample ID: 500-212711-7 MS
Matrix: Water
Analysis Batch: 645249

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.0012		0.500	0.496		mg/L		99	75 - 125
Lead	<0.00050		0.100	0.102		mg/L		102	75 - 125
Lithium	0.021		0.500	0.503		mg/L		96	75 - 125
Molybdenum	0.020		1.00	1.03		mg/L		101	75 - 125
Selenium	<0.0025		0.100	0.106		mg/L		106	75 - 125
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125

Lab Sample ID: 500-212711-7 MS
Matrix: Water
Analysis Batch: 645443

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	3.3		1.00	4.49		mg/L		117	75 - 125

Lab Sample ID: 500-212711-7 MSD
Matrix: Water
Analysis Batch: 645249

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Antimony	<0.0030		0.500	0.509		mg/L		102	75 - 125	2	20
Arsenic	0.0030		0.100	0.100		mg/L		97	75 - 125	2	20
Barium	0.12		2.00	2.10		mg/L		99	75 - 125	1	20
Beryllium	<0.0010	^1+	0.0500	0.0479	^1+	mg/L		96	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0491		mg/L		98	75 - 125	3	20
Calcium	230		10.0	238	4	mg/L		82	75 - 125	2	20
Chromium	<0.0050		0.200	0.200		mg/L		100	75 - 125	0	20
Cobalt	0.0012		0.500	0.495		mg/L		99	75 - 125	0	20
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125	2	20
Lithium	0.021		0.500	0.511		mg/L		98	75 - 125	2	20
Molybdenum	0.020		1.00	1.02		mg/L		100	75 - 125	1	20
Selenium	<0.0025		0.100	0.104		mg/L		104	75 - 125	2	20
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125	2	20

Lab Sample ID: 500-212711-7 MSD
Matrix: Water
Analysis Batch: 645443

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Boron	3.3		1.00	4.45		mg/L		113	75 - 125	1	20

Lab Sample ID: 500-212711-7 DU
Matrix: Water
Analysis Batch: 645249

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0030		0.00329		mg/L		8	20
Barium	0.12		0.128		mg/L		3	20
Beryllium	<0.0010	^1+	<0.0010	^1+	mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20

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QC Sample Results

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

Job ID: 500-212711-1

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

Lab Sample ID: 500-212711-7 DU
Matrix: Water
Analysis Batch: 645249

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Calcium	230		234		mg/L		2	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	0.0012		0.00116		mg/L		2	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Lithium	0.021		0.0239		mg/L		12	20
Molybdenum	0.020		0.0210		mg/L		3	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-212711-7 DU
Matrix: Water
Analysis Batch: 645443

Client Sample ID: MW-15
Prep Type: Total Recoverable
Prep Batch: 645026

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	3.3		3.89		mg/L		16	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-645524/12-A
Matrix: Water
Analysis Batch: 645683

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645524

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/22 13:40	03/04/22 09:49	1

Lab Sample ID: LCS 500-645524/13-A
Matrix: Water
Analysis Batch: 645683

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645524

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00209		mg/L		105	80 - 120

Lab Sample ID: 500-212711-11 MS
Matrix: Water
Analysis Batch: 645683

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 645524

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000991		mg/L		99	75 - 125

Lab Sample ID: 500-212711-11 MSD
Matrix: Water
Analysis Batch: 645683

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 645524

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000956		mg/L		96	75 - 125	4	20

QC Sample Results

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

Job ID: 500-212711-1

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

Lab Sample ID: 500-212711-11 DU
Matrix: Water
Analysis Batch: 645683

Client Sample ID: MW-08
Prep Type: Total/NA
Prep Batch: 645524

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

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

Lab Sample ID: MB 500-643902/1
Matrix: Water
Analysis Batch: 643902

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			02/23/22 04:26	1

Lab Sample ID: LCS 500-643902/2
Matrix: Water
Analysis Batch: 643902

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	274		mg/L		110	80 - 120

Lab Sample ID: MB 500-644165/1
Matrix: Water
Analysis Batch: 644165

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			02/24/22 05:32	1

Lab Sample ID: LCS 500-644165/2
Matrix: Water
Analysis Batch: 644165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	270		mg/L		108	80 - 120

Lab Sample ID: 500-212711-4 MS
Matrix: Water
Analysis Batch: 644165

Client Sample ID: MW-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	940		250	1220		mg/L		111	75 - 125

Lab Sample ID: 500-212711-4 DU
Matrix: Water
Analysis Batch: 644165

Client Sample ID: MW-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	940		936		mg/L		0.6	5

QC Sample Results

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

Job ID: 500-212711-1

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

Lab Sample ID: 500-212711-5 DU
Matrix: Water
Analysis Batch: 644165

Client Sample ID: MW-07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1220		mg/L		0.3	5

Lab Sample ID: MB 500-644711/1
Matrix: Water
Analysis Batch: 644711

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			02/27/22 19:21	1

Lab Sample ID: LCS 500-644711/2
Matrix: Water
Analysis Batch: 644711

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	272		mg/L		109	80 - 120

Lab Sample ID: MB 500-644712/1
Matrix: Water
Analysis Batch: 644712

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			02/27/22 21:14	1

Lab Sample ID: LCS 500-644712/2
Matrix: Water
Analysis Batch: 644712

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	278		mg/L		111	80 - 120

Lab Sample ID: 500-212711-17 MS
Matrix: Water
Analysis Batch: 644712

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	800		250	1100		mg/L		119	75 - 125

Lab Sample ID: 500-212711-17 DU
Matrix: Water
Analysis Batch: 644712

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	800		804		mg/L		0	5

QC Sample Results

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

Job ID: 500-212711-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-647120/16
Matrix: Water
Analysis Batch: 647120

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			03/15/22 14:46	1

Lab Sample ID: LCS 500-647120/17
Matrix: Water
Analysis Batch: 647120

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	20.3		mg/L		101	85 - 115

Lab Sample ID: 500-212711-1 MS
Matrix: Water
Analysis Batch: 647120

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
Chloride	26		20.0	46.2		mg/L		100	75 - 125

Lab Sample ID: 500-212711-1 MSD
Matrix: Water
Analysis Batch: 647120

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	Limit
Chloride	26		20.0	46.0		mg/L		99	75 - 125	1	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-645550/3
Matrix: Water
Analysis Batch: 645550

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			03/03/22 14:09	1

Lab Sample ID: LCS 500-645550/4
Matrix: Water
Analysis Batch: 645550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.2		mg/L		102	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-647243/15
Matrix: Water
Analysis Batch: 647243

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			03/15/22 16:07	1

QC Sample Results

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

Job ID: 500-212711-1

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

Lab Sample ID: LCS 500-647243/16
Matrix: Water
Analysis Batch: 647243

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	21.0		mg/L		105	88 - 123

Lab Sample ID: 500-212711-1 MS
Matrix: Water
Analysis Batch: 647243

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
Sulfate	370		20.0	383	4	mg/L		49	75 - 125

Lab Sample ID: 500-212711-1 MSD
Matrix: Water
Analysis Batch: 647243

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
Sulfate	370		20.0	385	4	mg/L		59	75 - 125	1	20

Lab Sample ID: MB 500-647597/126
Matrix: Water
Analysis Batch: 647597

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			03/17/22 14:51	1

Lab Sample ID: LCS 500-647597/127
Matrix: Water
Analysis Batch: 647597

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	22.3		mg/L		111	88 - 123

Lab Sample ID: 500-212711-15 MS
Matrix: Water
Analysis Batch: 647597

Client Sample ID: MW-13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	66		20.0	84.5		mg/L		91	75 - 125

Lab Sample ID: 500-212711-15 MSD
Matrix: Water
Analysis Batch: 647597

Client Sample ID: MW-13
Prep Type: Total/NA

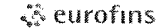
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	66		20.0	83.2		mg/L		85	75 - 125	2	20

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Chain of Custody Record

MKE 232



En AT Te At

Client Information		Sampler CORY HIGGINS		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No. 500-98809-43323 1		
Client Contact Mitchel Dolan		Phone 630 277 6038		E-Mail Diana.Mockler@Eurofinset.com		State of Origin		Page Page 1 of 2		
Company KPRG and Associates Inc		PWSID		Analysis Requested  500-212711 COC				Job # 500-212711		
Address 414 Plaza Drive Suite 106		Due Date 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)
City Westmont		TAT Requested (days)		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		PO # 4502081393		Other		
State Zip IL 60559		Project # 50011609		WO #		SSOW#				
Phone 779-279-2321(Tel)		Project Name Will County CCR Event Desc. Quarterly GW Monitoring		Site Illinois						
Email mitcheld@kprginc.com										
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		
								8010C, 6020A 7470A		
								2540C 4500_F_C, SM4500_CL, SM4500_SO4_E		
								Total Number of Containers		
								Special Instructions/Note		
								Preservation Code: D D N		
1 MW-01		2/21/22		13:20		G		Water		
2 MW-02		2/21/22		15:05		G		Water		
MW-03								Water		
MW-04								Water		
MW-05								Water		
MW-06								Water		
MW-07								Water		
MW-08								Water		
MW-09								Water		
MW-10								Water		
MW-11								Water		
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiologica					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date		Time		Method of Shipment				
Relinquished by <i>Cory Higgins</i>		Date/Time 2/22/22		Company <i>Kone</i>		Received by <i>M. Puckett</i>		Date/Time 2/22/22		Company <i>FA</i>
Relinquished by <i>A. Clark</i>		Date/Time 2/22/22		Company <i>1340</i>		Received by <i>Stephanie Hernandez</i>		Date/Time 2/22/22 1340		Company <i>EEM</i>
Relinquished by		Date/Time		Company		Received by		Date/Time		Company
Custody Seals Intact.		Custody Seal No		Cooler Temperature(s) °C and Other Remarks						
<input type="checkbox"/> Yes <input type="checkbox"/> No				3.7						

Client Information		Sampler <i>COM HIGGS/MIKE RESS</i>		Lab PM. Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-98809-43323.1	
Client Contact Mitchel Dolan		Phone: <i>6302776038/7085283932</i>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin:		Page: Page 1 of 2	
Company KPRG and Associates, Inc.		PWSID:		Analysis Request				Job #: <i>500-212711</i>	
Address: 414 Plaza Drive Suite 106		Due Date Requested:						 500-212711 COC	
City Westmont		TAT Requested (days):		A - HCL		M - Hexane			
State, Zip: IL, 60559		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		B - NaOH		N - None			
Phone: 779-279-2321(Tel)		PO #: 4502081393		C - Zn Acetate		O - AsNaO2			
Email: mitcheld@kprginc.com		WO #:		D - Nitric Acid		P - Na2O4S			
Project Name: Will County CCR Event Desc: Quarterly GW Monitoring		Project #: 50011609		E - NaHSO4		Q - Na2SO3			
Site: Illinois		SSOW#:		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/soil, BT=Tissue, A=Air)	
MW-01		2/24/22		12:25		G		Water	
MW-02		2/24/22		11:45		G		Water	
8 MW-03		2/24/22		12:25		G		Water	
9 MW-04		2/24/22		11:45		G		Water	
10 MW-05		2/24/22		13:15		G		Water	
MW-06		2/24/22		13:15		G		Water	
MW-07		2/24/22		15:20		G		Water	
11 MW-08		2/24/22		15:20		G		Water	
MW-09		2/24/22		09:30		G		Water	
12 MW-10		2/24/22		09:30		G		Water	
13 MW-11		2/23/22		14:20		G		Water	
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by		Date:		Time:		Method of Shipment:			
Relinquished by <i>Comp. Izzigino</i>		Date/Time: 2/25/22		Company <i>KPRG</i>		Received by <i>P Neal</i>		Date/Time: 2/25/22 0902	
Relinquished by <i>P Neal</i>		Date/Time: 2/25/22 1205		Company <i>EVA</i>		Received by <i>Stephanie Hemondley</i>		Date/Time: 2/25/22 1205	
Relinquished by		Date/Time:		Company		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No:		Cooler Temperature(s) °C and Other Remarks: <i>5, 1, 3, 1, 0, 2, 7, 0, 3</i>					

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212711-1

Login Number: 212711

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7,4.3,4.7,5.1,3.1,-0.3 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-212711-1

Client Sample ID: MW-01

Lab Sample ID: 500-212711-1

Date Collected: 02/21/22 13:20

Matrix: Water

Date Received: 02/22/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			644498	02/25/22 08:29		TAL CHI
Total Recoverable	Analysis	6020A		1	645038	02/28/22 17:27	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 09:53	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	643902	02/23/22 05:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	647120	03/15/22 14:46	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 14:31	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	647243	03/15/22 17:01	PFK	TAL CHI

Client Sample ID: MW-02

Lab Sample ID: 500-212711-2

Date Collected: 02/21/22 15:05

Matrix: Water

Date Received: 02/22/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			644498	02/25/22 08:29		TAL CHI
Total Recoverable	Analysis	6020A		1	645038	02/28/22 17:30	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 09:55	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	643902	02/23/22 05:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	647120	03/15/22 14:47	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 14:34	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	647597	03/17/22 14:52	PFK	TAL CHI

Client Sample ID: Duplicate-1

Lab Sample ID: 500-212711-3

Date Collected: 02/21/22 00:00

Matrix: Water

Date Received: 02/22/22 13:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			644498	02/25/22 08:29		TAL CHI
Total Recoverable	Analysis	6020A		1	645038	02/28/22 17:34	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 09:58	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	643902	02/23/22 05:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	647120	03/15/22 14:47	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 14:38	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	647243	03/15/22 17:12	PFK	TAL CHI

Client Sample ID: MW-06

Lab Sample ID: 500-212711-4

Date Collected: 02/22/22 09:50

Matrix: Water

Date Received: 02/23/22 14:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			644498	02/25/22 08:29		TAL CHI
Total Recoverable	Analysis	6020A		1	645038	02/28/22 17:37	FXG	TAL CHI

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-212711-1

Client Sample ID: MW-06

Date Collected: 02/22/22 09:50

Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:00	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644165	02/24/22 05:42	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	647120	03/15/22 14:47	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 14:41	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	647243	03/15/22 17:02	PFK	TAL CHI

Client Sample ID: MW-07

Date Collected: 02/22/22 11:25

Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			644498	02/25/22 08:29		TAL CHI
Total Recoverable	Analysis	6020A		1	645038	02/28/22 17:41	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:02	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644165	02/24/22 05:50	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	647120	03/15/22 14:48	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 14:54	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	647243	03/15/22 17:02	PFK	TAL CHI

Client Sample ID: MW-09

Date Collected: 02/22/22 12:55

Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			644498	02/25/22 08:29		TAL CHI
Total Recoverable	Analysis	6020A		1	645038	02/28/22 17:44	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:04	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644165	02/24/22 05:55	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	647120	03/15/22 14:48	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 14:58	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	647597	03/17/22 14:52	PFK	TAL CHI

Client Sample ID: MW-15

Date Collected: 02/22/22 14:30

Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 16:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		10	645443	03/02/22 12:37	FXG	TAL CHI

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-212711-1

Client Sample ID: MW-15
Date Collected: 02/22/22 14:30
Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:06	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644165	02/24/22 05:57	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	647120	03/15/22 14:49	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:01	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	647597	03/17/22 14:53	PFK	TAL CHI

Client Sample ID: MW-03
Date Collected: 02/24/22 12:25
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:06	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		10	645443	03/02/22 13:02	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:12	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 19:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	647120	03/15/22 14:49	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:06	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	647597	03/17/22 14:53	PFK	TAL CHI

Client Sample ID: MW-04
Date Collected: 02/24/22 11:45
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		20	645443	03/02/22 13:05	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:15	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 20:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	647120	03/15/22 14:49	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:09	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	647597	03/17/22 14:53	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-212711-1

Client Sample ID: MW-05

Lab Sample ID: 500-212711-10

Date Collected: 02/24/22 13:15

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:13	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		20	645443	03/02/22 13:09	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 20:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	647120	03/15/22 14:49	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:12	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	647243	03/15/22 17:03	PFK	TAL CHI

Client Sample ID: MW-08

Lab Sample ID: 500-212711-11

Date Collected: 02/24/22 15:20

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		5	645443	03/02/22 13:12	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:19	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 20:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	647120	03/15/22 14:49	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:16	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	647597	03/17/22 14:53	PFK	TAL CHI

Client Sample ID: MW-10

Lab Sample ID: 500-212711-12

Date Collected: 02/24/22 09:30

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:27	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		10	645443	03/02/22 13:16	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 20:10	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	647120	03/15/22 14:50	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:20	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	647597	03/17/22 14:54	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-212711-1

Client Sample ID: MW-11
Date Collected: 02/23/22 14:20
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:30	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		5	645443	03/02/22 13:19	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 20:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	647120	03/15/22 14:50	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:23	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	647597	03/17/22 14:54	PFK	TAL CHI

Client Sample ID: MW-12
Date Collected: 02/24/22 14:15
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:34	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		5	645443	03/02/22 13:23	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 20:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	647120	03/15/22 14:50	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:26	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	647597	03/17/22 14:55	PFK	TAL CHI

Client Sample ID: MW-13
Date Collected: 02/23/22 11:22
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:37	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645443	03/02/22 13:26	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:38	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 20:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	647120	03/15/22 14:51	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:40	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	647597	03/17/22 14:56	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-212711-1

Client Sample ID: MW-14
Date Collected: 02/23/22 11:00
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		10	645443	03/02/22 13:30	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:40	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644711	02/27/22 20:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	647120	03/15/22 14:52	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:43	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	647597	03/17/22 14:56	PFK	TAL CHI

Client Sample ID: Duplicate
Date Collected: 02/24/22 00:00
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		1	645249	03/01/22 17:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			645026	03/01/22 09:01		TAL CHI
Total Recoverable	Analysis	6020A		10	645443	03/02/22 13:33	FXG	TAL CHI
Total/NA	Prep	7470A			645524	03/03/22 13:40		TAL CHI
Total/NA	Analysis	7470A		1	645683	03/04/22 10:42	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	644712	02/27/22 21:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	647120	03/15/22 14:52	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	645550	03/03/22 15:46	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	647597	03/17/22 14:56	PFK	TAL CHI

Laboratory References:

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

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212711-2
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:
3/30/2022 1:22:24 PM

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

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

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



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Case Narrative

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

Job ID: 500-212711-2

Job ID: 500-212711-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212711-2

Comments

No additional comments.

Receipt

The samples were received on 2/22/2022 1:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were -0.3° C, 3.1° C, 3.7° C, 4.3° C, 4.7° C and 5.1° C.

Receipt Exceptions

Sample #7 "MW-15" Plastic 1-liter unpreserved has ID of MW-8. Logged sample MW-15 per matching time/Client.

RAD

Method 903.0: Radium 226 batch 552801

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 (500-212711-1), MW-02 (500-212711-2), Duplicate-1 (500-212711-3), MW-06 (500-212711-4), MW-07 (500-212711-5), MW-09 (500-212711-6), MW-15 (500-212711-7), (LCS 160-552801/1-A), (MB 160-552801/22-A) and (500-212711-D-1-A DU)

Method 903.0: Radium 226 batch 553139

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-03 (500-212711-8), MW-04 (500-212711-9), MW-05 (500-212711-10), MW-08 (500-212711-11), MW-10 (500-212711-12), MW-11 (500-212711-13), MW-12 (500-212711-14), MW-13 (500-212711-15), MW-14 (500-212711-16), Duplicate (500-212711-17), (LCS 160-553139/1-A), (MB 160-553139/22-A) and (500-212711-D-10-A DU)

Method 904.0: Radium 228 batch 552806

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 (500-212711-1), MW-02 (500-212711-2), Duplicate-1 (500-212711-3), MW-06 (500-212711-4), MW-07 (500-212711-5), MW-09 (500-212711-6), MW-15 (500-212711-7), (LCS 160-552806/1-A), (MB 160-552806/22-A) and (500-212711-D-1-B DU)

Method 904.0: Radium 228 batch 553148

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-12 (500-212711-14). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium 228 batch 553148

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-03 (500-212711-8), MW-04 (500-212711-9), MW-05 (500-212711-10), MW-08 (500-212711-11), MW-10 (500-212711-12), MW-11 (500-212711-13), MW-12 (500-212711-14), MW-13 (500-212711-15), MW-14 (500-212711-16), Duplicate (500-212711-17), (LCS 160-553148/1-A), (MB 160-553148/22-A) and (500-212711-D-10-B DU)

Method PrecSep_0:

Case Narrative

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

Job ID: 500-212711-2

Job ID: 500-212711-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method PrecSep_0:

Method PrecSep-21:

Method PrecSep-21:

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

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Method Summary

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

Job ID: 500-212711-2

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 St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

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

Job ID: 500-212711-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212711-1	MW-01	Water	02/21/22 13:20	02/22/22 13:40
500-212711-2	MW-02	Water	02/21/22 15:05	02/22/22 13:40
500-212711-3	Duplicate-1	Water	02/21/22 00:00	02/22/22 13:40
500-212711-4	MW-06	Water	02/22/22 09:50	02/23/22 14:51
500-212711-5	MW-07	Water	02/22/22 11:25	02/23/22 14:51
500-212711-6	MW-09	Water	02/22/22 12:55	02/23/22 14:51
500-212711-7	MW-15	Water	02/22/22 14:30	02/23/22 14:51
500-212711-8	MW-03	Water	02/24/22 12:25	02/25/22 12:05
500-212711-9	MW-04	Water	02/24/22 11:45	02/25/22 12:05
500-212711-10	MW-05	Water	02/24/22 13:15	02/25/22 12:05
500-212711-11	MW-08	Water	02/24/22 15:20	02/25/22 12:05
500-212711-12	MW-10	Water	02/24/22 09:30	02/25/22 12:05
500-212711-13	MW-11	Water	02/23/22 14:20	02/25/22 12:05
500-212711-14	MW-12	Water	02/24/22 14:15	02/25/22 12:05
500-212711-15	MW-13	Water	02/23/22 11:22	02/25/22 12:05
500-212711-16	MW-14	Water	02/23/22 11:00	02/25/22 12:05
500-212711-17	Duplicate	Water	02/24/22 00:00	02/25/22 12:05



Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-01

Lab Sample ID: 500-212711-1

Date Collected: 02/21/22 13:20

Matrix: Water

Date Received: 02/22/22 13:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.541		0.255	0.259	1.00	0.320	pCi/L	03/01/22 09:48	03/29/22 08:00	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					03/01/22 09:48	03/29/22 08:00	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	0.232	U	0.246	0.247	1.00	0.402	pCi/L	03/01/22 10:29	03/28/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.3		40 - 110					03/01/22 10:29	03/28/22 13:22	1
Y Carrier	86.4		40 - 110					03/01/22 10:29	03/28/22 13:22	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	0.773		0.354	0.358	5.00	0.402	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-02

Lab Sample ID: 500-212711-2

Date Collected: 02/21/22 15:05

Matrix: Water

Date Received: 02/22/22 13:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.248	U	0.376	0.377	1.00	0.643	pCi/L	03/01/22 09:48	03/29/22 08:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.4		40 - 110					03/01/22 09:48	03/29/22 08:01	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	0.313	U	0.503	0.503	1.00	0.848	pCi/L	03/01/22 10:29	03/28/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.4		40 - 110					03/01/22 10:29	03/28/22 13:22	1
Y Carrier	87.9		40 - 110					03/01/22 10:29	03/28/22 13:22	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	0.561	U	0.628	0.629	5.00	0.848	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: Duplicate-1

Lab Sample ID: 500-212711-3

Date Collected: 02/21/22 00:00

Matrix: Water

Date Received: 02/22/22 13:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.587		0.323	0.327	1.00	0.412	pCi/L	03/01/22 09:48	03/29/22 08:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					03/01/22 09:48	03/29/22 08:01	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	0.958		0.425	0.434	1.00	0.609	pCi/L	03/01/22 10:29	03/28/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.8		40 - 110					03/01/22 10:29	03/28/22 13:22	1
Y Carrier	87.1		40 - 110					03/01/22 10:29	03/28/22 13:22	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	1.55		0.534	0.543	5.00	0.609	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-06
Date Collected: 02/22/22 09:50
Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-4
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	0.0986	U	0.151	0.151	1.00	0.260	pCi/L	03/01/22 09:48	03/29/22 07:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					03/01/22 09:48	03/29/22 07:53	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	0.452		0.259	0.262	1.00	0.387	pCi/L	03/01/22 10:29	03/28/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.4		40 - 110					03/01/22 10:29	03/28/22 13:22	1
Y Carrier	84.5		40 - 110					03/01/22 10:29	03/28/22 13:22	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	0.551		0.300	0.302	5.00	0.387	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-07

Lab Sample ID: 500-212711-5

Date Collected: 02/22/22 11:25

Matrix: Water

Date Received: 02/23/22 14:51

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.166	U	0.167	0.168	1.00	0.399	pCi/L	03/01/22 09:48	03/29/22 07:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		40 - 110					03/01/22 09:48	03/29/22 07:53	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	0.0913	U	0.305	0.305	1.00	0.529	pCi/L	03/01/22 10:29	03/28/22 13:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		40 - 110					03/01/22 10:29	03/28/22 13:22	1
Y Carrier	83.4		40 - 110					03/01/22 10:29	03/28/22 13:22	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	-0.0749	U	0.348	0.348	5.00	0.529	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-09

Lab Sample ID: 500-212711-6

Date Collected: 02/22/22 12:55

Matrix: Water

Date Received: 02/23/22 14:51

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.148	U	0.186	0.186	1.00	0.308	pCi/L	03/01/22 09:48	03/29/22 07:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/01/22 09:48	03/29/22 07:54	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	0.0961	U	0.237	0.238	1.00	0.409	pCi/L	03/01/22 10:29	03/28/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.9		40 - 110					03/01/22 10:29	03/28/22 13:33	1
Y Carrier	84.9		40 - 110					03/01/22 10:29	03/28/22 13:33	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	0.244	U	0.301	0.302	5.00	0.409	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-15

Lab Sample ID: 500-212711-7

Date Collected: 02/22/22 14:30

Matrix: Water

Date Received: 02/23/22 14:51

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		0.263	0.266	1.00	0.311	pCi/L	03/01/22 09:48	03/29/22 07:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					03/01/22 09:48	03/29/22 07:55	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	0.967		0.373	0.384	1.00	0.525	pCi/L	03/01/22 10:29	03/28/22 13:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.6		40 - 110					03/01/22 10:29	03/28/22 13:33	1
Y Carrier	84.5		40 - 110					03/01/22 10:29	03/28/22 13:33	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	1.46		0.456	0.467	5.00	0.525	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-03
Date Collected: 02/24/22 12:25
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-8
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.311		0.193	0.195	1.00	0.255	pCi/L	03/03/22 10:28	03/29/22 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					03/03/22 10:28	03/29/22 10:03	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	0.802		0.331	0.339	1.00	0.473	pCi/L	03/03/22 11:05	03/28/22 13:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		40 - 110					03/03/22 11:05	03/28/22 13:36	1
Y Carrier	82.2		40 - 110					03/03/22 11:05	03/28/22 13:36	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	1.11		0.383	0.391	5.00	0.473	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-04
Date Collected: 02/24/22 11:45
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-9
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.144	U	0.204	0.204	1.00	0.345	pCi/L	03/03/22 10:28	03/29/22 10:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					03/03/22 10:28	03/29/22 10:03	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.262	U	0.261	0.262	1.00	0.424	pCi/L	03/03/22 11:05	03/28/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.9		40 - 110					03/03/22 11:05	03/28/22 13:37	1
Y Carrier	83.0		40 - 110					03/03/22 11:05	03/28/22 13:37	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	0.406	U	0.331	0.332	5.00	0.424	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-05

Lab Sample ID: 500-212711-10

Date Collected: 02/24/22 13:15

Matrix: Water

Date Received: 02/25/22 12:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.100	U	0.159	0.159	1.00	0.276	pCi/L	03/03/22 10:28	03/29/22 10:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					03/03/22 10:28	03/29/22 10:04	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	0.152	U	0.246	0.246	1.00	0.415	pCi/L	03/03/22 11:05	03/28/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.2		40 - 110					03/03/22 11:05	03/28/22 13:37	1
Y Carrier	84.1		40 - 110					03/03/22 11:05	03/28/22 13:37	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	0.253	U	0.293	0.293	5.00	0.415	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-08
Date Collected: 02/24/22 15:20
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-11
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	0.113	U	0.206	0.206	1.00	0.365	pCi/L	03/03/22 10:28	03/29/22 10:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					03/03/22 10:28	03/29/22 10:04	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	0.488	U	0.406	0.408	1.00	0.645	pCi/L	03/03/22 11:05	03/28/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		40 - 110					03/03/22 11:05	03/28/22 13:37	1
Y Carrier	83.0		40 - 110					03/03/22 11:05	03/28/22 13:37	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	0.601	U	0.455	0.457	5.00	0.645	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-10
Date Collected: 02/24/22 09:30
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-12
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	0.226	U	0.217	0.217	1.00	0.335	pCi/L	03/03/22 10:28	03/29/22 10:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					03/03/22 10:28	03/29/22 10:04	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	0.543	U	0.392	0.395	1.00	0.615	pCi/L	03/03/22 11:05	03/28/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					03/03/22 11:05	03/28/22 13:37	1
Y Carrier	80.0		40 - 110					03/03/22 11:05	03/28/22 13:37	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	0.768		0.448	0.451	5.00	0.615	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-11

Lab Sample ID: 500-212711-13

Date Collected: 02/23/22 14:20

Matrix: Water

Date Received: 02/25/22 12:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.705		0.399	0.404	1.00	0.485	pCi/L	03/03/22 10:28	03/29/22 10:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					03/03/22 10:28	03/29/22 10:05	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.948	U	0.633	0.639	1.00	0.979	pCi/L	03/03/22 11:05	03/28/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.8		40 - 110					03/03/22 11:05	03/28/22 13:37	1
Y Carrier	81.5		40 - 110					03/03/22 11:05	03/28/22 13:37	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	1.65		0.748	0.756	5.00	0.979	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-12
Date Collected: 02/24/22 14:15
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-14
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	0.690	U	0.546	0.549	1.00	0.753	pCi/L	03/03/22 10:28	03/29/22 10:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					03/03/22 10:28	03/29/22 10:06	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	0.624	U G	0.963	0.965	1.00	1.62	pCi/L	03/03/22 11:05	03/28/22 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		40 - 110					03/03/22 11:05	03/28/22 13:39	1
Y Carrier	83.0		40 - 110					03/03/22 11:05	03/28/22 13:39	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	1.31	U	1.11	1.11	5.00	1.62	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-13
Date Collected: 02/23/22 11:22
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-15
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	0.146	U	0.185	0.185	1.00	0.306	pCi/L	03/03/22 10:28	03/29/22 10:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					03/03/22 10:28	03/29/22 10:06	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	-0.186	U	0.325	0.325	1.00	0.613	pCi/L	03/03/22 11:05	03/28/22 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		40 - 110					03/03/22 11:05	03/28/22 13:39	1
Y Carrier	81.5		40 - 110					03/03/22 11:05	03/28/22 13:39	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	-0.0395	U	0.374	0.374	5.00	0.613	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: MW-14
Date Collected: 02/23/22 11:00
Date Received: 02/25/22 12:05

Lab Sample ID: 500-212711-16
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	0.362		0.252	0.254	1.00	0.338	pCi/L	03/03/22 10:28	03/29/22 10:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					03/03/22 10:28	03/29/22 10:06	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	0.512	U	0.394	0.396	1.00	0.615	pCi/L	03/03/22 11:05	03/28/22 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		40 - 110					03/03/22 11:05	03/28/22 13:39	1
Y Carrier	81.5		40 - 110					03/03/22 11:05	03/28/22 13:39	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	0.874		0.468	0.470	5.00	0.615	pCi/L		03/30/22 12:32	1

Client Sample Results

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

Job ID: 500-212711-2

Client Sample ID: Duplicate

Lab Sample ID: 500-212711-17

Date Collected: 02/24/22 00:00

Matrix: Water

Date Received: 02/25/22 12:05

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.534		0.274	0.279	1.00	0.321	pCi/L	03/03/22 10:28	03/29/22 10:06	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					03/03/22 10:28	03/29/22 10:06	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	0.185	U	0.340	0.340	1.00	0.579	pCi/L	03/03/22 11:05	03/28/22 13:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.4		40 - 110					03/03/22 11:05	03/28/22 13:39	1
Y Carrier	80.7		40 - 110					03/03/22 11:05	03/28/22 13:39	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	0.718		0.437	0.440	5.00	0.579	pCi/L		03/30/22 12:32	1

Definitions/Glossary

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

Job ID: 500-212711-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

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

Job ID: 500-212711-2

Rad

Prep Batch: 552801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total/NA	Water	PrecSep-21	
500-212711-2	MW-02	Total/NA	Water	PrecSep-21	
500-212711-3	Duplicate-1	Total/NA	Water	PrecSep-21	
500-212711-4	MW-06	Total/NA	Water	PrecSep-21	
500-212711-5	MW-07	Total/NA	Water	PrecSep-21	
500-212711-6	MW-09	Total/NA	Water	PrecSep-21	
500-212711-7	MW-15	Total/NA	Water	PrecSep-21	
MB 160-552801/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-552801/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-212711-1 DU	MW-01	Total/NA	Water	PrecSep-21	

Prep Batch: 552806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-1	MW-01	Total/NA	Water	PrecSep_0	
500-212711-2	MW-02	Total/NA	Water	PrecSep_0	
500-212711-3	Duplicate-1	Total/NA	Water	PrecSep_0	
500-212711-4	MW-06	Total/NA	Water	PrecSep_0	
500-212711-5	MW-07	Total/NA	Water	PrecSep_0	
500-212711-6	MW-09	Total/NA	Water	PrecSep_0	
500-212711-7	MW-15	Total/NA	Water	PrecSep_0	
MB 160-552806/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-552806/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-212711-1 DU	MW-01	Total/NA	Water	PrecSep_0	

Prep Batch: 553139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-8	MW-03	Total/NA	Water	PrecSep-21	
500-212711-9	MW-04	Total/NA	Water	PrecSep-21	
500-212711-10	MW-05	Total/NA	Water	PrecSep-21	
500-212711-11	MW-08	Total/NA	Water	PrecSep-21	
500-212711-12	MW-10	Total/NA	Water	PrecSep-21	
500-212711-13	MW-11	Total/NA	Water	PrecSep-21	
500-212711-14	MW-12	Total/NA	Water	PrecSep-21	
500-212711-15	MW-13	Total/NA	Water	PrecSep-21	
500-212711-16	MW-14	Total/NA	Water	PrecSep-21	
500-212711-17	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-553139/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-553139/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-212711-10 DU	MW-05	Total/NA	Water	PrecSep-21	

Prep Batch: 553148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-8	MW-03	Total/NA	Water	PrecSep_0	
500-212711-9	MW-04	Total/NA	Water	PrecSep_0	
500-212711-10	MW-05	Total/NA	Water	PrecSep_0	
500-212711-11	MW-08	Total/NA	Water	PrecSep_0	
500-212711-12	MW-10	Total/NA	Water	PrecSep_0	
500-212711-13	MW-11	Total/NA	Water	PrecSep_0	
500-212711-14	MW-12	Total/NA	Water	PrecSep_0	
500-212711-15	MW-13	Total/NA	Water	PrecSep_0	
500-212711-16	MW-14	Total/NA	Water	PrecSep_0	

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QC Association Summary

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

Job ID: 500-212711-2

Rad (Continued)

Prep Batch: 553148 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212711-17	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-553148/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-553148/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-212711-10 DU	MW-05	Total/NA	Water	PrecSep_0	

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QC Sample Results

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

Job ID: 500-212711-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-552801/22-A
Matrix: Water
Analysis Batch: 557637

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552801

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.1393	U	0.158	0.158	1.00	0.255	pCi/L	03/01/22 09:48	03/29/22 10:02	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110				03/01/22 09:48		03/29/22 10:02	1

Lab Sample ID: LCS 160-552801/1-A
Matrix: Water
Analysis Batch: 557637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552801

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.452		1.18	1.00	0.241	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	96.8		40 - 110						

Lab Sample ID: 500-212711-1 DU
Matrix: Water
Analysis Batch: 557637

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 552801

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.541		0.1138	U	0.169	1.00	0.289	pCi/L	1.0	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	81.0		40 - 110							

Lab Sample ID: MB 160-553139/22-A
Matrix: Water
Analysis Batch: 557632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553139

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.09457	U	0.106	0.107	1.00	0.278	pCi/L	03/03/22 10:28	03/29/22 10:01	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	95.6		40 - 110				03/03/22 10:28		03/29/22 10:01	1

Lab Sample ID: LCS 160-553139/1-A
Matrix: Water
Analysis Batch: 557655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553139

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.313		1.18	1.00	0.313	pCi/L	82	75 - 125

QC Sample Results

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

Job ID: 500-212711-2

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

Lab Sample ID: LCS 160-553139/1-A
Matrix: Water
Analysis Batch: 557655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553139

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.4		40 - 110

Lab Sample ID: 500-212711-10 DU
Matrix: Water
Analysis Batch: 557655

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 553139

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-226	0.100	U	0.07029	U	0.141	1.00	0.254	pCi/L	0.10	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	89.2		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-552806/22-A
Matrix: Water
Analysis Batch: 557424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 552806

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.3290	U	0.276	0.278	1.00	0.534	pCi/L	03/01/22 10:29	03/28/22 13:34	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	86.9		40 - 110	03/01/22 10:29	03/28/22 13:34	1
Y Carrier	87.5		40 - 110	03/01/22 10:29	03/28/22 13:34	1

Lab Sample ID: LCS 160-552806/1-A
Matrix: Water
Analysis Batch: 557606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 552806

Analyte	Spike Added	LCS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
		Result	Qual						
Radium-228	8.75	8.353		0.993	1.00	0.330	pCi/L	95	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.8		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 500-212711-1 DU
Matrix: Water
Analysis Batch: 557606

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 552806

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual						
Radium-228	0.232	U	0.3668	U	0.270	1.00	0.417	pCi/L	0.26	1

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QC Sample Results

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

Job ID: 500-212711-2

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

Lab Sample ID: 500-212711-1 DU
Matrix: Water
Analysis Batch: 557606

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 552806

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	81.0		40 - 110
Y Carrier	86.0		40 - 110

Lab Sample ID: MB 160-553148/22-A
Matrix: Water
Analysis Batch: 557421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 553148

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.09851	U	0.232	0.232	1.00	0.399	pCi/L	03/03/22 11:05	03/28/22 13:42	1

	MB	MB		Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits			
Ba Carrier	95.6		40 - 110	03/03/22 11:05	03/28/22 13:42	1
Y Carrier	87.1		40 - 110	03/03/22 11:05	03/28/22 13:42	1

Lab Sample ID: LCS 160-553148/1-A
Matrix: Water
Analysis Batch: 557411

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 553148

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

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	87.4		40 - 110
Y Carrier	84.1		40 - 110

Lab Sample ID: 500-212711-10 DU
Matrix: Water
Analysis Batch: 557411

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 553148

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.152	U	0.1459	U	0.245	1.00	0.414	pCi/L	0.01	1

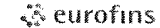
	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	89.2		40 - 110
Y Carrier	84.9		40 - 110

Eurofins Chicago


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

Chain of Custody Record

MKE 232



En AT Te At

Client Information		Sampler CORY HIGGINS		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No. 500-98809-43323 1		
Client Contact Mitchel Dolan		Phone 630 277 6038		E-Mail Diana.Mockler@Eurofinset.com		State of Origin		Page Page 1 of 2		
Company KPRG and Associates Inc		PWSID		Analysis Requested  500-212711 COC				Job # 500-212711		
Address 414 Plaza Drive Suite 106		Due Date 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)
City Westmont		TAT Requested (days)		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		PO # 4502081393		WO #		
State Zip IL 60559		Project Name Will County CCR Event Desc. Quarterly GW Monitoring		Project # 50011609		SSOW#		Other		
Phone 779-279-2321(Tel)		Site Illinois		Sample Identification		Sample Date		Sample Time		
Email mitcheld@kprginc.com		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		
Project Name		903.0, 904.0		8010C, 6020A, 7470A		2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E		Total Number of Containers		
Site		Preservation Code:		D D N		Special Instructions/Note				
MW-01		2/21/22		13:20		G		Water		
MW-02		2/21/22		15:05		G		Water		
MW-03								Water		
MW-04								Water		
MW-05								Water		
MW-06								Water		
MW-07								Water		
MW-08								Water		
MW-09								Water		
MW-10								Water		
MW-11								Water		
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiologica					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date		Time		Method of Shipment				
Relinquished by <i>Cory Higgins</i>		Date/Time 2/22/22		Company <i>Kone</i>		Received by <i>M. Puckett</i>		Date/Time 2/22/22		Company <i>FA</i>
Relinquished by <i>M. Puckett</i>		Date/Time 2/22/22		Company <i>1340</i>		Received by <i>Stephanie Hernandez</i>		Date/Time 2/22/22 1340		Company <i>EEM</i>
Relinquished by		Date/Time		Company		Received by		Date/Time		Company
Custody Seals Intact.		Custody Seal No		Cooler Temperature(s) °C and Other Remarks						
<input type="checkbox"/> Yes <input type="checkbox"/> No				3.7						

Eurofins Chicago

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

Chain of Custody Record

MKE 232



Client Information		Sampler: <u>CONY HIGGINS</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-98809-43323.1	
Client Contact: Mitchel Dolan		Phone: <u>630 277 6030</u>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin:		Page: Page 1 of 2	
Company: KPRG and Associates, Inc.		Address: 414 Plaza Drive Suite 106		City: Westmont		State, Zip: IL, 60559		Job #: <u>500-212711</u>	
Phone: 779-279-2321(Tel)		Email: mitcheld@kprginc.com		Project Name: Will County CCR Event Desc: Quarterly GW Monitoring		Site: Illinois		Analysis Reques	
Due Date Requested:		TAT Requested (days):		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: 4502081393		WO #:	
Project #: 50011609		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		500-212711 COC	
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	903.0, 904.0		6010C, 6020A, 7470A	
						2E40C, 4E00_F_C, SM4500_CL_E, SM4500_SO4_E		Total Number of containers	
MW-01					Water				
MW-02					Water				
MW-03					Water				
MW-04					Water				
MW-05					Water				
4 MW-06		2/22/22	09:50	G	Water	N	X	X	X
5 MW-07		2/22/22	11:25	G	Water	N	X	X	X
MW-08					Water				
6 MW-09		2/22/22	12:55	G	Water	N	X	X	X
MW-10					Water				
MW-11					Water				
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <u>Cony Higgins</u>		Date/Time: <u>2/23/22</u>		Company: <u>KPRG</u>		Received by: <u>P. Neal</u>		Date/Time: <u>2/23/22 1330</u>	
Relinquished by: <u>P. Neal</u>		Date/Time: <u>2/23/22 1451</u>		Company: <u>eurofins</u>		Received by: <u>Stephanie Hernandez</u>		Date/Time: <u>2/23/21 1451</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>4.3 4.7</u>					

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

Chain of Custody Record

MKE 232

Eurofins Environmental Testing
 America

Client Information		Sampler: <u>CORY HIGGINS</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-98809-43323.2																																																	
Client Contact: Mitchell Dolan		Phone: <u>630 277 6078</u>		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin:		Page: Page 2 of 2																																																	
Company: KPRG and Associates, Inc.		PWSID:		Analysis Requested						Job #: <u>500-212711</u>																																															
Address: 414 Plaza Drive Suite 106		Due Date Requested:		<table border="1"> <tr> <td>803.0, 804.0</td> <td>8010C, 8020A, 7470A</td> <td>2640C, 4600, F-C, 5M4500, Cl-E, 5M4500, SO4-E</td> </tr> </table>						803.0, 804.0	8010C, 8020A, 7470A	2640C, 4600, F-C, 5M4500, Cl-E, 5M4500, SO4-E	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)																																										
803.0, 804.0	8010C, 8020A, 7470A	2640C, 4600, F-C, 5M4500, Cl-E, 5M4500, SO4-E																																																							
City: Westmont		TAT Requested (days):								Other:																																															
State, Zip: IL, 60559		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No																																																							
Phone: 779-279-2321(Tel)		PO #: 4502081393																																																							
Email: mitcheld@kprginc.com		WO #:																																																							
Project Name: Will County CCR Event Desc: Quarterly GW Monitoring		Project #: 50011609		<table border="1"> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)</th> <th>Analysis Requested</th> <th>Preservation Code</th> <th>Special Instructions/Note</th> </tr> <tr> <td>MW-12</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>MW-13</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>MW-14</td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td>MW-15</td> <td>2/23/22</td> <td>14:30</td> <td>G</td> <td>Water</td> <td>N</td> <td>XXX</td> <td></td> </tr> <tr> <td>Duplicate</td> <td></td> <td></td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> </table>						Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Analysis Requested	Preservation Code	Special Instructions/Note	MW-12	 	 	 	 	 	 	 	MW-13	 	 	 	 	 	 	 	MW-14	 	 	 	 	 	 	 	MW-15	2/23/22	14:30	G	Water	N	XXX		Duplicate				Water			
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)							Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Analysis Requested	Preservation Code	Special Instructions/Note																																												
MW-12	 	 	 	 	 	 	 																																																		
MW-13	 	 	 	 	 	 	 																																																		
MW-14	 	 	 	 	 	 	 																																																		
MW-15	2/23/22	14:30	G	Water	N	XXX																																																			
Duplicate				Water																																																					
Site: Illinois		SSOW#:																																																							

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: <u>Cory Higgins</u>	Date/Time: <u>2/23/22</u>	Company: <u>Kprg</u>	Received by: <u>P. Neal</u>	Date/Time: <u>2/23/22 1330</u>	Company: <u>unclon</u>
Relinquished by: <u>P. Neal</u>	Date/Time: <u>2/23/22 1451</u>	Company: <u>unclon</u>	Received by: <u>Sophanie Humonda</u>	Date/Time: <u>2/23/22 1451</u>	Company: <u>EEA</u>

Custody Seals Intact: Yes No

Custody Seal No: _____

Cooler Temperature(s) °C and Other Remarks: _____

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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		Carrier Tracking No(s):		COC No:	
Client Contact: Shipping/Receiving		Phone:		Mockler, Diana J		500-157448.1		Page:	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North,		E-Mail: Diana.Mockler@Eurofinset.com		State of Origin: Illinois		Page 1 of 1	
City: Earth City		Due Date Requested: 3/22/2022		Accreditations Required (See note): NELAP - Illinois		Job #: 500-212711-2		Preservation Codes:	
State, Zip: MO 63045		TAT Requested (days):		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:		Matrix (Water, Solid, Overstabil)		903.0/PreSep_21 Standard Target List		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Email:		WO #:		Sample Type (C=comp, G=grab)		94.0/PreSep_0 Standard Target List		Special Instructions/Note:	
Project Name: Will County CCR		Project #: 50011609		Sample Time		R4226Ra228_GFPc		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Site: NRG Midwest Generation Will County		SSOW#:		Sample Date		R4226Ra228_GFPc		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Sample Identification - Client ID (Lab ID)		Sample Date		Preservation Code:		Total Number of Containers		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
MW-01 (500-212711-1)	2/21/22	13:20 Central	Water	X	X	3			
MW-02 (500-212711-2)	2/21/22	15:05 Central	Water	X	X	3			
Duplicate-1 (500-212711-3)	2/21/22	Central	Water	X	X	3			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.									
Possible Hazard Identification									
Unconfirmed									
Deliverable Requested: I, II, III, IV, Other (specify)									
Primary Deliverable Rank: 2									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)									
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Special Instructions/QC Requirements:									
Empty Kit Relinquished by:									
Relinquished by: <i>[Signature]</i> Date: 2/22/22									
Relinquished by: <i>[Signature]</i> Date: 1530									
Relinquished by: _____ Date/Time: _____									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Custody Seal No.:									
Cooler Temperature(s) °C and Other Remarks:									



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Camer Tracking No(s):		COC No:
Client Contact: Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Phone:	Mockler, Diana J	State of Origin: Illinois		500-157550.1
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045		Due Date Requested: 3/15/2022	E-Mail: Diana.Mockler@Eurofinset.com	Page 1 of 2		Job #: 500-212711-1
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days):	Accreditations Required (See note): NELAP - Illinois		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Niinc Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email: Project Name: Will County CCR		PO #:	Analysis Requested		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)	
Site: NRG Midwest Generation Will County		WO #:	Perform MSMD (Yes or No)		Total Number of containers	
Project #: 50011609		SSOW#:	Field Filtered Sample (Yes or No)		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air)
MW-03 (500-212711-8)	2/24/22	12:25 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-04 (500-212711-9)	2/24/22	11:45 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-05 (500-212711-10)	2/24/22	13:15 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-08 (500-212711-11)	2/24/22	15:20 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-10 (500-212711-12)	2/24/22	09:30 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-11 (500-212711-13)	2/23/22	14:20 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-12 (500-212711-14)	2/24/22	14:15 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-13 (500-212711-15)	2/23/22	11:22 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-14 (500-212711-16)	2/23/22	11:00 Central	Water	X	X	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: *Shirley Scott* Date: *2/25/22* Time: *1515* Company: *PEPA*
 Relinquished by: _____ Date: _____ Time: _____ Company: _____
 Relinquished by: _____ Date: _____ Time: _____ Company: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212711-2

Login Number: 212711

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7,4.3,4.7,5.1,3.1,-0.3 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212711-2

Login Number: 212711

List Number: 2

Creator: Johnson, Autumn R

List Source: Eurofins St. Louis

List Creation: 02/23/22 04:56 PM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212711-2

Login Number: 212711

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/25/22 02:06 PM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212711-2

Login Number: 212711

List Number: 4

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/28/22 10:16 AM

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



Lab Chronicle

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

Job ID: 500-212711-2

Client Sample ID: MW-01
Date Collected: 02/21/22 13:20
Date Received: 02/22/22 13:40

Lab Sample ID: 500-212711-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			552801	03/01/22 09:48	LPS	TAL SL
Total/NA	Analysis	903.0		1	557637	03/29/22 08:00	FLC	TAL SL
Total/NA	Prep	PrecSep_0			552806	03/01/22 10:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-02
Date Collected: 02/21/22 15:05
Date Received: 02/22/22 13:40

Lab Sample ID: 500-212711-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			552801	03/01/22 09:48	LPS	TAL SL
Total/NA	Analysis	903.0		1	557637	03/29/22 08:01	FLC	TAL SL
Total/NA	Prep	PrecSep_0			552806	03/01/22 10:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: Duplicate-1
Date Collected: 02/21/22 00:00
Date Received: 02/22/22 13:40

Lab Sample ID: 500-212711-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			552801	03/01/22 09:48	LPS	TAL SL
Total/NA	Analysis	903.0		1	557637	03/29/22 08:01	FLC	TAL SL
Total/NA	Prep	PrecSep_0			552806	03/01/22 10:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-06
Date Collected: 02/22/22 09:50
Date Received: 02/23/22 14:51

Lab Sample ID: 500-212711-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			552801	03/01/22 09:48	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 07:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			552806	03/01/22 10:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-212711-2

Client Sample ID: MW-07

Lab Sample ID: 500-212711-5

Date Collected: 02/22/22 11:25

Matrix: Water

Date Received: 02/23/22 14:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			552801	03/01/22 09:48	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 07:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			552806	03/01/22 10:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	557606	03/28/22 13:22	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-09

Lab Sample ID: 500-212711-6

Date Collected: 02/22/22 12:55

Matrix: Water

Date Received: 02/23/22 14:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			552801	03/01/22 09:48	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 07:54	FLC	TAL SL
Total/NA	Prep	PrecSep_0			552806	03/01/22 10:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	557424	03/28/22 13:33	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-15

Lab Sample ID: 500-212711-7

Date Collected: 02/22/22 14:30

Matrix: Water

Date Received: 02/23/22 14:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			552801	03/01/22 09:48	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 07:55	FLC	TAL SL
Total/NA	Prep	PrecSep_0			552806	03/01/22 10:29	LPS	TAL SL
Total/NA	Analysis	904.0		1	557424	03/28/22 13:33	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-03

Lab Sample ID: 500-212711-8

Date Collected: 02/24/22 12:25

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:03	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:36	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-212711-2

Client Sample ID: MW-04

Lab Sample ID: 500-212711-9

Date Collected: 02/24/22 11:45

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:03	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:37	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-05

Lab Sample ID: 500-212711-10

Date Collected: 02/24/22 13:15

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:04	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:37	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-08

Lab Sample ID: 500-212711-11

Date Collected: 02/24/22 15:20

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:04	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:37	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-10

Lab Sample ID: 500-212711-12

Date Collected: 02/24/22 09:30

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:04	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:37	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-212711-2

Client Sample ID: MW-11

Lab Sample ID: 500-212711-13

Date Collected: 02/23/22 14:20

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:05	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:37	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-12

Lab Sample ID: 500-212711-14

Date Collected: 02/24/22 14:15

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:06	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:39	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-13

Lab Sample ID: 500-212711-15

Date Collected: 02/23/22 11:22

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:06	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:39	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Client Sample ID: MW-14

Lab Sample ID: 500-212711-16

Date Collected: 02/23/22 11:00

Matrix: Water

Date Received: 02/25/22 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:06	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:39	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Lab Chronicle

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

Job ID: 500-212711-2

Client Sample ID: Duplicate

Lab Sample ID: 500-212711-17

Date Collected: 02/24/22 00:00

Matrix: Water

Date Received: 02/25/22 12:05

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			553139	03/03/22 10:28	LPS	TAL SL
Total/NA	Analysis	903.0		1	557655	03/29/22 10:06	FLC	TAL SL
Total/NA	Prep	PrecSep_0			553148	03/03/22 11:05	LPS	TAL SL
Total/NA	Analysis	904.0		1	557411	03/28/22 13:39	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	557867	03/30/22 12:32	EMH	TAL SL

Laboratory References:

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

Tracer/Carrier Summary

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

Job ID: 500-212711-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	
500-212711-1	MW-01	83.3	
500-212711-1 DU	MW-01	81.0	
500-212711-2	MW-02	58.4	
500-212711-3	Duplicate-1	78.8	
500-212711-4	MW-06	89.4	
500-212711-5	MW-07	77.6	
500-212711-6	MW-09	92.9	
500-212711-7	MW-15	79.6	
500-212711-8	MW-03	88.2	
500-212711-9	MW-04	88.9	
500-212711-10	MW-05	89.2	
500-212711-10 DU	MW-05	89.2	
500-212711-11	MW-08	79.1	
500-212711-12	MW-10	92.1	
500-212711-13	MW-11	80.8	
500-212711-14	MW-12	92.1	
500-212711-15	MW-13	91.4	
500-212711-16	MW-14	78.6	
500-212711-17	Duplicate	87.4	
LCS 160-552801/1-A	Lab Control Sample	96.8	
LCS 160-553139/1-A	Lab Control Sample	87.4	
MB 160-552801/22-A	Method Blank	86.9	
MB 160-553139/22-A	Method Blank	95.6	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (40-110)	Y (40-110)
500-212711-1	MW-01	83.3	86.4
500-212711-1 DU	MW-01	81.0	86.0
500-212711-2	MW-02	58.4	87.9
500-212711-3	Duplicate-1	78.8	87.1
500-212711-4	MW-06	89.4	84.5
500-212711-5	MW-07	77.6	83.4
500-212711-6	MW-09	92.9	84.9
500-212711-7	MW-15	79.6	84.5
500-212711-8	MW-03	88.2	82.2
500-212711-9	MW-04	88.9	83.0
500-212711-10	MW-05	89.2	84.1
500-212711-10 DU	MW-05	89.2	84.9
500-212711-11	MW-08	79.1	83.0
500-212711-12	MW-10	92.1	80.0
500-212711-13	MW-11	80.8	81.5
500-212711-14	MW-12	92.1	83.0
500-212711-15	MW-13	91.4	81.5

Tracer/Carrier Summary

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

Job ID: 500-212711-2

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-212711-16	MW-14	78.6	81.5
500-212711-17	Duplicate	87.4	80.7
LCS 160-552806/1-A	Lab Control Sample	96.8	84.1
LCS 160-553148/1-A	Lab Control Sample	87.4	84.1
MB 160-552806/22-A	Method Blank	86.9	87.5
MB 160-553148/22-A	Method Blank	95.6	87.1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier


ANALYTICAL REPORT

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

Laboratory Job ID: 500-218112-1
Client Project/Site: Will County CCR

For:
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
7/15/2022 8:08:30 AM

Diana Mockler, Project Manager I
(219)252-7570

Diana.Mockler@et.eurofinsus.com

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

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



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

Job ID: 500-218112-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-218112-1

Comments

No additional comments.

Receipt

The samples were received on 6/15/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.9° C, 1.2° C, 1.7° C, 4.0° C, 4.1° C and 4.4° C.

Metals

Method 6020A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: MW-13 (500-218112-5).

Method 6020A: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: MW-13 (500-218112-5).

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

General Chemistry

Method SM 4500 Cl- E: The CCV bracketing the following samples recovered above the control limits for Chloride. The CCVH recovered within acceptance limits. The samples were reanalyzed outside of holding time. The re-analysis confirmed the original results. The original results have been qualified and reported.

MW-14 (500-218112-6), MW-15 (500-218112-7) and Duplicate-2 (500-218112-9)

Method SM 4500 Cl- E: The CCV recovered above the upper control limit for Chloride. The CCVH recovered within control limits. These samples recovered at a level greater than the CCVH and have been qualified and reported.

MW-12 (500-218112-4), MW-13 (500-218112-5) and Duplicate-1 (500-218112-8)

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

Method Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

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

Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-218112-1	MW-6	Water	06/14/22 14:25	06/15/22 10:30
500-218112-2	MW-10	Water	06/14/22 13:05	06/15/22 10:30
500-218112-3	MW-11	Water	06/13/22 15:44	06/15/22 10:30
500-218112-4	MW-12	Water	06/13/22 14:35	06/15/22 10:30
500-218112-5	MW-13	Water	06/14/22 11:35	06/15/22 10:30
500-218112-6	MW-14	Water	06/14/22 10:25	06/15/22 10:30
500-218112-7	MW-15	Water	06/14/22 09:10	06/15/22 10:30
500-218112-8	Duplicate-1	Water	06/13/22 00:00	06/15/22 10:30
500-218112-9	Duplicate-2	Water	06/13/22 00:00	06/15/22 10:30
500-218112-10	MW-1	Water	06/15/22 08:35	06/16/22 13:50
500-218112-11	MW-2	Water	06/15/22 09:55	06/16/22 13:50
500-218112-12	MW-3	Water	06/16/22 11:40	06/16/22 13:50
500-218112-13	MW-4	Water	06/16/22 10:15	06/16/22 13:50
500-218112-14	MW-5	Water	06/16/22 09:10	06/16/22 13:50
500-218112-15	MW-7	Water	06/15/22 13:55	06/16/22 13:50
500-218112-16	MW-8	Water	06/15/22 12:30	06/16/22 13:50
500-218112-17	MW-9	Water	06/15/22 11:05	06/16/22 13:50

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-6

Lab Sample ID: 500-218112-1

Date Collected: 06/14/22 14:25

Matrix: Water

Date Received: 06/15/22 10:30

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		06/23/22 15:54	06/24/22 17:59	1
Arsenic	0.0018		0.0010		mg/L		06/23/22 15:54	06/24/22 17:59	1
Barium	0.082		0.0025		mg/L		06/23/22 15:54	06/24/22 17:59	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:59	1
Boron	2.5		0.50		mg/L		06/23/22 15:54	06/27/22 12:38	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 17:59	1
Calcium	110		0.20		mg/L		06/23/22 15:54	06/24/22 17:59	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 17:59	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:59	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 17:59	1
Lithium	0.014		0.010		mg/L		06/23/22 15:54	06/24/22 17:59	1
Molybdenum	0.018		0.0050		mg/L		06/23/22 15:54	06/24/22 17:59	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 17:59	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 17:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	610		10		mg/L			06/20/22 02:57	1
Chloride	22		2.0		mg/L			06/16/22 11:15	1
Fluoride	0.35		0.10		mg/L			06/25/22 17:04	1
Sulfate	210		50		mg/L			06/16/22 12:39	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-10
Date Collected: 06/14/22 13:05
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-2
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		06/23/22 15:54	06/24/22 18:02	1
Arsenic	0.0080		0.0010		mg/L		06/23/22 15:54	06/24/22 18:02	1
Barium	0.081		0.0025		mg/L		06/23/22 15:54	06/24/22 18:02	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:02	1
Boron	2.9		0.50		mg/L		06/23/22 15:54	06/27/22 12:42	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:02	1
Calcium	100		0.20		mg/L		06/23/22 15:54	06/24/22 18:02	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:02	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:02	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:02	1
Lithium	0.015		0.010		mg/L		06/23/22 15:54	06/24/22 18:02	1
Molybdenum	0.12		0.0050		mg/L		06/23/22 15:54	06/24/22 18:02	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:02	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 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		06/23/22 09:55	06/24/22 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	790		10		mg/L			06/20/22 02:59	1
Chloride	140		10		mg/L			06/16/22 11:15	5
Fluoride	0.86		0.10		mg/L			06/25/22 17:07	1
Sulfate	280		50		mg/L			06/16/22 12:38	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-11
Date Collected: 06/13/22 15:44
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-3
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		06/23/22 15:54	06/24/22 18:05	1
Arsenic	0.0088		0.0010		mg/L		06/23/22 15:54	06/24/22 18:05	1
Barium	0.17		0.0025		mg/L		06/23/22 15:54	06/24/22 18:05	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:05	1
Boron	2.8		0.50		mg/L		06/23/22 15:54	06/27/22 12:45	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:05	1
Calcium	120		0.20		mg/L		06/23/22 15:54	06/24/22 18:05	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:05	1
Cobalt	0.0022		0.0010		mg/L		06/23/22 15:54	06/24/22 18:05	1
Lead	0.0018		0.00050		mg/L		06/23/22 15:54	06/24/22 18:05	1
Lithium	0.011		0.010		mg/L		06/23/22 15:54	06/24/22 18:05	1
Molybdenum	0.058		0.0050		mg/L		06/23/22 15:54	06/24/22 18:05	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:05	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		10		mg/L			06/20/22 03:02	1
Chloride	140		10		mg/L			06/16/22 11:16	5
Fluoride	0.40		0.10		mg/L			06/25/22 17:10	1
Sulfate	97		25		mg/L			06/16/22 12:39	5

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-12
Date Collected: 06/13/22 14:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-4
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		06/23/22 15:54	06/24/22 18:09	1
Arsenic	0.0015		0.0010		mg/L		06/23/22 15:54	06/24/22 18:09	1
Barium	0.15		0.0025		mg/L		06/23/22 15:54	06/24/22 18:09	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:09	1
Boron	1.9		0.25		mg/L		06/23/22 15:54	06/27/22 12:48	5
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:09	1
Calcium	160		0.20		mg/L		06/23/22 15:54	06/24/22 18:09	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:09	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:09	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:09	1
Lithium	0.012		0.010		mg/L		06/23/22 15:54	06/24/22 18:09	1
Molybdenum	0.024		0.0050		mg/L		06/23/22 15:54	06/24/22 18:09	1
Selenium	0.0045		0.0025		mg/L		06/23/22 15:54	06/24/22 18:09	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/20/22 03:04	1
Chloride	210	^+	10		mg/L			06/16/22 11:54	5
Fluoride	0.45		0.10		mg/L			06/25/22 17:14	1
Sulfate	170		25		mg/L			06/16/22 12:40	5

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-13

Lab Sample ID: 500-218112-5

Date Collected: 06/14/22 11:35

Matrix: Water

Date Received: 06/15/22 10:30

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		06/23/22 15:54	06/24/22 18:33	1
Arsenic	0.046		0.0010		mg/L		06/23/22 15:54	06/24/22 18:33	1
Barium	0.43		0.0025		mg/L		06/23/22 15:54	06/24/22 18:33	1
Beryllium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/27/22 13:12	5
Boron	2.1		0.25		mg/L		06/23/22 15:54	06/27/22 13:12	5
Cadmium	0.0022		0.00050		mg/L		06/23/22 15:54	06/24/22 18:33	1
Calcium	500		1.0		mg/L		06/23/22 15:54	06/27/22 13:12	5
Chromium	0.077		0.025		mg/L		06/23/22 15:54	06/27/22 13:12	5
Cobalt	0.041		0.0050		mg/L		06/23/22 15:54	06/27/22 13:12	5
Lead	0.063		0.00050		mg/L		06/23/22 15:54	06/24/22 18:33	1
Lithium	<0.050		0.050		mg/L		06/23/22 15:54	06/29/22 14:01	5
Molybdenum	0.026		0.0050		mg/L		06/23/22 15:54	06/24/22 18:33	1
Selenium	0.0097		0.0025		mg/L		06/23/22 15:54	06/24/22 18:33	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			06/20/22 03:07	1
Chloride	200	^+	10		mg/L			06/16/22 11:54	5
Fluoride	0.37		0.10		mg/L			06/25/22 17:17	1
Sulfate	210		25		mg/L			06/16/22 12:41	5

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-14
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-6
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		06/23/22 15:54	06/24/22 18:36	1
Arsenic	0.0021		0.0010		mg/L		06/23/22 15:54	06/24/22 18:36	1
Barium	0.083		0.0025		mg/L		06/23/22 15:54	06/24/22 18:36	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:36	1
Boron	5.3		1.0		mg/L		06/23/22 15:54	06/27/22 13:19	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:36	1
Calcium	160		0.20		mg/L		06/23/22 15:54	06/24/22 18:36	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:36	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:36	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:36	1
Lithium	0.048		0.010		mg/L		06/23/22 15:54	06/24/22 18:36	1
Molybdenum	0.050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:36	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:36	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			06/20/22 03:10	1
Chloride	110	^+	10		mg/L			06/16/22 11:55	5
Fluoride	0.47		0.10		mg/L			06/25/22 17:20	1
Sulfate	490		50		mg/L			06/16/22 12:41	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-15

Lab Sample ID: 500-218112-7

Date Collected: 06/14/22 09:10

Matrix: Water

Date Received: 06/15/22 10:30

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		06/23/22 15:54	06/24/22 18:40	1
Arsenic	0.0027		0.0010		mg/L		06/23/22 15:54	06/24/22 18:40	1
Barium	0.10		0.0025		mg/L		06/23/22 15:54	06/24/22 18:40	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:40	1
Boron	3.7		0.50		mg/L		06/23/22 15:54	06/27/22 13:24	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:40	1
Calcium	230		0.20		mg/L		06/23/22 15:54	06/24/22 18:40	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:40	1
Cobalt	0.0012		0.0010		mg/L		06/23/22 15:54	06/24/22 18:40	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:40	1
Lithium	0.021		0.010		mg/L		06/23/22 15:54	06/24/22 18:40	1
Molybdenum	0.027		0.0050		mg/L		06/23/22 15:54	06/24/22 18:40	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:40	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			06/20/22 03:12	1
Chloride	130	^+	10		mg/L			06/16/22 11:55	5
Fluoride	0.45		0.10		mg/L			06/25/22 17:23	1
Sulfate	750		100		mg/L			06/16/22 12:42	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: Duplicate-1
 Date Collected: 06/13/22 00:00
 Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-8
 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		06/23/22 15:54	06/24/22 18:43	1
Arsenic	0.0015		0.0010		mg/L		06/23/22 15:54	06/24/22 18:43	1
Barium	0.15		0.0025		mg/L		06/23/22 15:54	06/24/22 18:43	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:43	1
Boron	1.9		0.25		mg/L		06/23/22 15:54	06/27/22 13:27	5
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:43	1
Calcium	170		0.20		mg/L		06/23/22 15:54	06/24/22 18:43	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:43	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:43	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:43	1
Lithium	0.013		0.010		mg/L		06/23/22 15:54	06/24/22 18:43	1
Molybdenum	0.025		0.0050		mg/L		06/23/22 15:54	06/24/22 18:43	1
Selenium	0.0063		0.0025		mg/L		06/23/22 15:54	06/24/22 18:43	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			06/20/22 03:15	1
Chloride	210	^+	10		mg/L			06/16/22 11:55	5
Fluoride	0.44		0.10		mg/L			06/25/22 17:26	1
Sulfate	150		100		mg/L			06/16/22 12:42	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: Duplicate-2

Lab Sample ID: 500-218112-9

Date Collected: 06/13/22 00:00

Matrix: Water

Date Received: 06/15/22 10:30

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		06/23/22 15:54	06/24/22 18:47	1
Arsenic	0.0024		0.0010		mg/L		06/23/22 15:54	06/24/22 18:47	1
Barium	0.12		0.0025		mg/L		06/23/22 15:54	06/24/22 18:47	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:47	1
Boron	4.1		0.50		mg/L		06/23/22 15:54	06/27/22 13:31	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:47	1
Calcium	230		0.20		mg/L		06/23/22 15:54	06/24/22 18:47	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:47	1
Cobalt	0.0011		0.0010		mg/L		06/23/22 15:54	06/24/22 18:47	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:47	1
Lithium	0.022		0.010		mg/L		06/23/22 15:54	06/24/22 18:47	1
Molybdenum	0.027		0.0050		mg/L		06/23/22 15:54	06/24/22 18:47	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:47	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			06/20/22 03:17	1
Chloride	130	^+	10		mg/L			06/16/22 11:56	5
Fluoride	0.44		0.10		mg/L			06/25/22 17:29	1
Sulfate	750		100		mg/L			06/16/22 12:42	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-1

Lab Sample ID: 500-218112-10

Date Collected: 06/15/22 08:35

Matrix: Water

Date Received: 06/16/22 13:50

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		06/23/22 15:54	06/24/22 18:50	1
Arsenic	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:50	1
Barium	0.090		0.0025		mg/L		06/23/22 15:54	06/24/22 18:50	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:50	1
Boron	2.6		0.50		mg/L		06/23/22 15:54	06/27/22 13:34	10
Cadmium	0.00054		0.00050		mg/L		06/23/22 15:54	06/24/22 18:50	1
Calcium	180		0.20		mg/L		06/23/22 15:54	06/24/22 18:50	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:50	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:50	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:50	1
Lithium	0.033		0.010		mg/L		06/23/22 15:54	06/24/22 18:50	1
Molybdenum	0.015		0.0050		mg/L		06/23/22 15:54	06/24/22 18:50	1
Selenium	0.0087		0.0025		mg/L		06/23/22 15:54	06/24/22 18:50	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/20/22 03:20	1
Chloride	33		2.0		mg/L			06/20/22 13:39	1
Fluoride	0.61		0.10		mg/L			06/25/22 17:32	1
Sulfate	350		50		mg/L			06/17/22 15:06	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-2

Lab Sample ID: 500-218112-11

Date Collected: 06/15/22 09:55

Matrix: Water

Date Received: 06/16/22 13:50

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		06/23/22 15:54	06/24/22 18:54	1
Arsenic	0.010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:54	1
Barium	0.058		0.0025		mg/L		06/23/22 15:54	06/24/22 18:54	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:54	1
Boron	5.3		1.0		mg/L		06/23/22 15:54	06/27/22 13:45	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:54	1
Calcium	91		0.20		mg/L		06/23/22 15:54	06/24/22 18:54	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:54	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:54	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:54	1
Lithium	0.044		0.010		mg/L		06/23/22 15:54	06/24/22 18:54	1
Molybdenum	0.073		0.0050		mg/L		06/23/22 15:54	06/24/22 18:54	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:54	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/20/22 03:22	1
Chloride	30		2.0		mg/L			06/20/22 13:39	1
Fluoride	0.39		0.10		mg/L			06/25/22 17:45	1
Sulfate	460		50		mg/L			06/17/22 15:06	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-3

Lab Sample ID: 500-218112-12

Date Collected: 06/16/22 11:40

Matrix: Water

Date Received: 06/16/22 13:50

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		06/23/22 15:54	06/24/22 18:57	1
Arsenic	0.0014		0.0010		mg/L		06/23/22 15:54	06/24/22 18:57	1
Barium	0.10		0.0025		mg/L		06/23/22 15:54	06/24/22 18:57	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:57	1
Boron	4.0		0.50		mg/L		06/23/22 15:54	06/27/22 13:48	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:57	1
Calcium	140		0.20		mg/L		06/23/22 15:54	06/24/22 18:57	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 18:57	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 18:57	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 18:57	1
Lithium	0.045		0.010		mg/L		06/23/22 15:54	06/24/22 18:57	1
Molybdenum	0.022		0.0050		mg/L		06/23/22 15:54	06/24/22 18:57	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 18:57	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 18:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10		mg/L			06/20/22 03:25	1
Chloride	18		2.0		mg/L			06/20/22 13:39	1
Fluoride	0.31		0.10		mg/L			06/25/22 17:49	1
Sulfate	300		50		mg/L			06/17/22 15:07	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-4

Lab Sample ID: 500-218112-13

Date Collected: 06/16/22 10:15

Matrix: Water

Date Received: 06/16/22 13:50

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		06/23/22 15:54	06/24/22 19:00	1
Arsenic	0.0030		0.0010		mg/L		06/23/22 15:54	06/24/22 19:00	1
Barium	0.045		0.0025		mg/L		06/23/22 15:54	06/24/22 19:00	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:00	1
Boron	5.5		1.0		mg/L		06/23/22 15:54	06/27/22 13:51	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:00	1
Calcium	310		4.0		mg/L		06/23/22 15:54	06/27/22 13:51	20
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:00	1
Cobalt	0.0021		0.0010		mg/L		06/23/22 15:54	06/24/22 19:00	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:00	1
Lithium	0.023		0.010		mg/L		06/23/22 15:54	06/24/22 19:00	1
Molybdenum	0.026		0.0050		mg/L		06/23/22 15:54	06/24/22 19:00	1
Selenium	0.0044		0.0025		mg/L		06/23/22 15:54	06/24/22 19:00	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2200		10		mg/L			06/20/22 03:28	1
Chloride	22		2.0		mg/L			06/20/22 13:39	1
Fluoride	0.37		0.10		mg/L			06/25/22 17:52	1
Sulfate	990		250		mg/L			06/17/22 15:38	50

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-5
Date Collected: 06/16/22 09:10
Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-14
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		06/23/22 15:54	06/24/22 19:04	1
Arsenic	0.0037		0.0010		mg/L		06/23/22 15:54	06/24/22 19:04	1
Barium	0.055		0.0025		mg/L		06/23/22 15:54	06/24/22 19:04	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:04	1
Boron	5.1		1.0		mg/L		06/23/22 15:54	06/27/22 13:55	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:04	1
Calcium	120		0.20		mg/L		06/23/22 15:54	06/24/22 19:04	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:04	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:04	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:04	1
Lithium	0.011		0.010		mg/L		06/23/22 15:54	06/24/22 19:04	1
Molybdenum	0.064		0.0050		mg/L		06/23/22 15:54	06/24/22 19:04	1
Selenium	0.0080		0.0025		mg/L		06/23/22 15:54	06/24/22 19:04	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/20/22 03:30	1
Chloride	41		2.0		mg/L			06/20/22 13:40	1
Fluoride	0.34		0.10		mg/L			06/25/22 17:55	1
Sulfate	510		100		mg/L			06/17/22 15:39	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-7

Lab Sample ID: 500-218112-15

Date Collected: 06/15/22 13:55

Matrix: Water

Date Received: 06/16/22 13:50

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		06/23/22 15:54	06/24/22 19:14	1
Arsenic	0.0045		0.0010		mg/L		06/23/22 15:54	06/24/22 19:14	1
Barium	0.075		0.0025		mg/L		06/23/22 15:54	06/24/22 19:14	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:14	1
Boron	4.4		1.0		mg/L		06/23/22 15:54	06/27/22 13:58	20
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:14	1
Calcium	150		0.20		mg/L		06/23/22 15:54	06/24/22 19:14	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:14	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:14	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:14	1
Lithium	0.023		0.010		mg/L		06/23/22 15:54	06/24/22 19:14	1
Molybdenum	0.056		0.0050		mg/L		06/23/22 15:54	06/24/22 19:14	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 19:14	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			06/20/22 03:33	1
Chloride	120		10		mg/L			06/20/22 13:58	5
Fluoride	0.68		0.10		mg/L			06/25/22 17:59	1
Sulfate	520		100		mg/L			06/17/22 15:39	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-8

Lab Sample ID: 500-218112-16

Date Collected: 06/15/22 12:30

Matrix: Water

Date Received: 06/16/22 13:50

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		06/23/22 15:54	06/24/22 19:18	1
Arsenic	0.0048		0.0010		mg/L		06/23/22 15:54	06/24/22 19:18	1
Barium	0.075		0.0025		mg/L		06/23/22 15:54	06/24/22 19:18	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:18	1
Boron	2.9		0.50		mg/L		06/23/22 15:54	06/27/22 14:02	10
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:18	1
Calcium	150		0.20		mg/L		06/23/22 15:54	06/24/22 19:18	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:18	1
Cobalt	0.0016		0.0010		mg/L		06/23/22 15:54	06/24/22 19:18	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:18	1
Lithium	0.014		0.010		mg/L		06/23/22 15:54	06/24/22 19:18	1
Molybdenum	0.064		0.0050		mg/L		06/23/22 15:54	06/24/22 19:18	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 19:18	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			06/20/22 03:35	1
Chloride	170		10		mg/L			06/20/22 13:59	5
Fluoride	0.59		0.10		mg/L			06/25/22 18:02	1
Sulfate	480		50		mg/L			06/17/22 15:39	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-9

Lab Sample ID: 500-218112-17

Date Collected: 06/15/22 11:05

Matrix: Water

Date Received: 06/16/22 13:50

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		06/23/22 15:54	06/24/22 19:21	1
Arsenic	0.0071		0.0010		mg/L		06/23/22 15:54	06/24/22 19:21	1
Barium	0.036		0.0025		mg/L		06/23/22 15:54	06/24/22 19:21	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:21	1
Boron	1.9		0.25		mg/L		06/23/22 15:54	06/27/22 14:05	5
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:21	1
Calcium	43		0.20		mg/L		06/23/22 15:54	06/24/22 19:21	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 19:21	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 19:21	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 19:21	1
Lithium	<0.010		0.010		mg/L		06/23/22 15:54	06/24/22 19:21	1
Molybdenum	0.057		0.0050		mg/L		06/23/22 15:54	06/24/22 19:21	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 19:21	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 19:21	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 09:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730		10		mg/L			06/20/22 03:38	1
Chloride	230		10		mg/L			06/20/22 13:59	5
Fluoride	0.48		0.10		mg/L			06/25/22 18:05	1
Sulfate	180		50		mg/L			06/17/22 15:40	10

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

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.

General Chemistry

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

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

QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Metals

Prep Batch: 662549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	7470A	
500-218112-2	MW-10	Total/NA	Water	7470A	
500-218112-3	MW-11	Total/NA	Water	7470A	
500-218112-4	MW-12	Total/NA	Water	7470A	
500-218112-5	MW-13	Total/NA	Water	7470A	
500-218112-6	MW-14	Total/NA	Water	7470A	
500-218112-7	MW-15	Total/NA	Water	7470A	
500-218112-8	Duplicate-1	Total/NA	Water	7470A	
500-218112-9	Duplicate-2	Total/NA	Water	7470A	
500-218112-10	MW-1	Total/NA	Water	7470A	
500-218112-11	MW-2	Total/NA	Water	7470A	
500-218112-12	MW-3	Total/NA	Water	7470A	
500-218112-13	MW-4	Total/NA	Water	7470A	
500-218112-14	MW-5	Total/NA	Water	7470A	
500-218112-15	MW-7	Total/NA	Water	7470A	
500-218112-16	MW-8	Total/NA	Water	7470A	
500-218112-17	MW-9	Total/NA	Water	7470A	
MB 500-662549/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-662549/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-218112-9 MS	Duplicate-2	Total/NA	Water	7470A	
500-218112-9 MSD	Duplicate-2	Total/NA	Water	7470A	
500-218112-9 DU	Duplicate-2	Total/NA	Water	7470A	

Prep Batch: 662626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total Recoverable	Water	3005A	
500-218112-2	MW-10	Total Recoverable	Water	3005A	
500-218112-3	MW-11	Total Recoverable	Water	3005A	
500-218112-4	MW-12	Total Recoverable	Water	3005A	
500-218112-5	MW-13	Total Recoverable	Water	3005A	
500-218112-6	MW-14	Total Recoverable	Water	3005A	
500-218112-7	MW-15	Total Recoverable	Water	3005A	
500-218112-8	Duplicate-1	Total Recoverable	Water	3005A	
500-218112-9	Duplicate-2	Total Recoverable	Water	3005A	
500-218112-10	MW-1	Total Recoverable	Water	3005A	
500-218112-11	MW-2	Total Recoverable	Water	3005A	
500-218112-12	MW-3	Total Recoverable	Water	3005A	
500-218112-13	MW-4	Total Recoverable	Water	3005A	
500-218112-14	MW-5	Total Recoverable	Water	3005A	
500-218112-15	MW-7	Total Recoverable	Water	3005A	
500-218112-16	MW-8	Total Recoverable	Water	3005A	
500-218112-17	MW-9	Total Recoverable	Water	3005A	
MB 500-662626/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-662626/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-218112-4 MS	MW-12	Total Recoverable	Water	3005A	
500-218112-4 MSD	MW-12	Total Recoverable	Water	3005A	
500-218112-4 DU	MW-12	Total Recoverable	Water	3005A	

Analysis Batch: 662744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	7470A	662549

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Metals (Continued)

Analysis Batch: 662744 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-2	MW-10	Total/NA	Water	7470A	662549
500-218112-3	MW-11	Total/NA	Water	7470A	662549
500-218112-4	MW-12	Total/NA	Water	7470A	662549
500-218112-5	MW-13	Total/NA	Water	7470A	662549
500-218112-6	MW-14	Total/NA	Water	7470A	662549
500-218112-7	MW-15	Total/NA	Water	7470A	662549
500-218112-8	Duplicate-1	Total/NA	Water	7470A	662549
500-218112-9	Duplicate-2	Total/NA	Water	7470A	662549
500-218112-10	MW-1	Total/NA	Water	7470A	662549
500-218112-11	MW-2	Total/NA	Water	7470A	662549
500-218112-12	MW-3	Total/NA	Water	7470A	662549
500-218112-13	MW-4	Total/NA	Water	7470A	662549
500-218112-14	MW-5	Total/NA	Water	7470A	662549
500-218112-15	MW-7	Total/NA	Water	7470A	662549
500-218112-16	MW-8	Total/NA	Water	7470A	662549
500-218112-17	MW-9	Total/NA	Water	7470A	662549
MB 500-662549/12-A	Method Blank	Total/NA	Water	7470A	662549
LCS 500-662549/13-A	Lab Control Sample	Total/NA	Water	7470A	662549
500-218112-9 MS	Duplicate-2	Total/NA	Water	7470A	662549
500-218112-9 MSD	Duplicate-2	Total/NA	Water	7470A	662549
500-218112-9 DU	Duplicate-2	Total/NA	Water	7470A	662549

Analysis Batch: 663015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total Recoverable	Water	6020A	662626
500-218112-2	MW-10	Total Recoverable	Water	6020A	662626
500-218112-3	MW-11	Total Recoverable	Water	6020A	662626
500-218112-4	MW-12	Total Recoverable	Water	6020A	662626
500-218112-5	MW-13	Total Recoverable	Water	6020A	662626
500-218112-6	MW-14	Total Recoverable	Water	6020A	662626
500-218112-7	MW-15	Total Recoverable	Water	6020A	662626
500-218112-8	Duplicate-1	Total Recoverable	Water	6020A	662626
500-218112-9	Duplicate-2	Total Recoverable	Water	6020A	662626
500-218112-10	MW-1	Total Recoverable	Water	6020A	662626
500-218112-11	MW-2	Total Recoverable	Water	6020A	662626
500-218112-12	MW-3	Total Recoverable	Water	6020A	662626
500-218112-13	MW-4	Total Recoverable	Water	6020A	662626
500-218112-14	MW-5	Total Recoverable	Water	6020A	662626
500-218112-15	MW-7	Total Recoverable	Water	6020A	662626
500-218112-16	MW-8	Total Recoverable	Water	6020A	662626
500-218112-17	MW-9	Total Recoverable	Water	6020A	662626
MB 500-662626/1-A	Method Blank	Total Recoverable	Water	6020A	662626
LCS 500-662626/2-A	Lab Control Sample	Total Recoverable	Water	6020A	662626
500-218112-4 MS	MW-12	Total Recoverable	Water	6020A	662626
500-218112-4 MSD	MW-12	Total Recoverable	Water	6020A	662626
500-218112-4 DU	MW-12	Total Recoverable	Water	6020A	662626

Analysis Batch: 663232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total Recoverable	Water	6020A	662626
500-218112-2	MW-10	Total Recoverable	Water	6020A	662626

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

Metals (Continued)

Analysis Batch: 663232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-3	MW-11	Total Recoverable	Water	6020A	662626
500-218112-4	MW-12	Total Recoverable	Water	6020A	662626
500-218112-5	MW-13	Total Recoverable	Water	6020A	662626
500-218112-6	MW-14	Total Recoverable	Water	6020A	662626
500-218112-7	MW-15	Total Recoverable	Water	6020A	662626
500-218112-8	Duplicate-1	Total Recoverable	Water	6020A	662626
500-218112-9	Duplicate-2	Total Recoverable	Water	6020A	662626
500-218112-10	MW-1	Total Recoverable	Water	6020A	662626
500-218112-11	MW-2	Total Recoverable	Water	6020A	662626
500-218112-12	MW-3	Total Recoverable	Water	6020A	662626
500-218112-13	MW-4	Total Recoverable	Water	6020A	662626
500-218112-14	MW-5	Total Recoverable	Water	6020A	662626
500-218112-15	MW-7	Total Recoverable	Water	6020A	662626
500-218112-16	MW-8	Total Recoverable	Water	6020A	662626
500-218112-17	MW-9	Total Recoverable	Water	6020A	662626
MB 500-662626/1-A	Method Blank	Total Recoverable	Water	6020A	662626
LCS 500-662626/2-A	Lab Control Sample	Total Recoverable	Water	6020A	662626
500-218112-4 MS	MW-12	Total Recoverable	Water	6020A	662626
500-218112-4 MSD	MW-12	Total Recoverable	Water	6020A	662626
500-218112-4 DU	MW-12	Total Recoverable	Water	6020A	662626

Analysis Batch: 663608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-5	MW-13	Total Recoverable	Water	6020A	662626

General Chemistry

Analysis Batch: 661504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	SM 4500 Cl- E	
500-218112-2	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-218112-3	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-218112-4	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-218112-5	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-218112-6	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-218112-7	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-218112-8	Duplicate-1	Total/NA	Water	SM 4500 Cl- E	
500-218112-9	Duplicate-2	Total/NA	Water	SM 4500 Cl- E	
MB 500-661504/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-661504/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 661531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	SM 4500 SO4 E	
500-218112-2	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-218112-3	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-218112-4	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-218112-5	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-218112-6	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-218112-7	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-218112-8	Duplicate-1	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

General Chemistry (Continued)

Analysis Batch: 661531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-9	Duplicate-2	Total/NA	Water	SM 4500 SO4 E	
MB 500-661531/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-661531/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-218112-2 MS	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-218112-2 MSD	MW-10	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 661787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-10	MW-1	Total/NA	Water	SM 4500 SO4 E	
500-218112-11	MW-2	Total/NA	Water	SM 4500 SO4 E	
500-218112-12	MW-3	Total/NA	Water	SM 4500 SO4 E	
500-218112-13	MW-4	Total/NA	Water	SM 4500 SO4 E	
500-218112-14	MW-5	Total/NA	Water	SM 4500 SO4 E	
500-218112-15	MW-7	Total/NA	Water	SM 4500 SO4 E	
500-218112-16	MW-8	Total/NA	Water	SM 4500 SO4 E	
500-218112-17	MW-9	Total/NA	Water	SM 4500 SO4 E	
MB 500-661787/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-661787/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-218112-10 MS	MW-1	Total/NA	Water	SM 4500 SO4 E	
500-218112-10 MSD	MW-1	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 661852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	SM 2540C	
500-218112-2	MW-10	Total/NA	Water	SM 2540C	
500-218112-3	MW-11	Total/NA	Water	SM 2540C	
500-218112-4	MW-12	Total/NA	Water	SM 2540C	
500-218112-5	MW-13	Total/NA	Water	SM 2540C	
500-218112-6	MW-14	Total/NA	Water	SM 2540C	
500-218112-7	MW-15	Total/NA	Water	SM 2540C	
500-218112-8	Duplicate-1	Total/NA	Water	SM 2540C	
500-218112-9	Duplicate-2	Total/NA	Water	SM 2540C	
500-218112-10	MW-1	Total/NA	Water	SM 2540C	
500-218112-11	MW-2	Total/NA	Water	SM 2540C	
500-218112-12	MW-3	Total/NA	Water	SM 2540C	
500-218112-13	MW-4	Total/NA	Water	SM 2540C	
500-218112-14	MW-5	Total/NA	Water	SM 2540C	
500-218112-15	MW-7	Total/NA	Water	SM 2540C	
500-218112-16	MW-8	Total/NA	Water	SM 2540C	
500-218112-17	MW-9	Total/NA	Water	SM 2540C	
MB 500-661852/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-661852/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 662007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-10	MW-1	Total/NA	Water	SM 4500 CI- E	
500-218112-11	MW-2	Total/NA	Water	SM 4500 CI- E	
500-218112-12	MW-3	Total/NA	Water	SM 4500 CI- E	
500-218112-13	MW-4	Total/NA	Water	SM 4500 CI- E	
500-218112-14	MW-5	Total/NA	Water	SM 4500 CI- E	
500-218112-15	MW-7	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

General Chemistry (Continued)

Analysis Batch: 662007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-16	MW-8	Total/NA	Water	SM 4500 CI- E	
500-218112-17	MW-9	Total/NA	Water	SM 4500 CI- E	
MB 500-662007/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-662007/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 662917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	SM 4500 F C	
500-218112-2	MW-10	Total/NA	Water	SM 4500 F C	
500-218112-3	MW-11	Total/NA	Water	SM 4500 F C	
500-218112-4	MW-12	Total/NA	Water	SM 4500 F C	
500-218112-5	MW-13	Total/NA	Water	SM 4500 F C	
500-218112-6	MW-14	Total/NA	Water	SM 4500 F C	
500-218112-7	MW-15	Total/NA	Water	SM 4500 F C	
500-218112-8	Duplicate-1	Total/NA	Water	SM 4500 F C	
500-218112-9	Duplicate-2	Total/NA	Water	SM 4500 F C	
500-218112-10	MW-1	Total/NA	Water	SM 4500 F C	
500-218112-11	MW-2	Total/NA	Water	SM 4500 F C	
500-218112-12	MW-3	Total/NA	Water	SM 4500 F C	
500-218112-13	MW-4	Total/NA	Water	SM 4500 F C	
500-218112-14	MW-5	Total/NA	Water	SM 4500 F C	
500-218112-15	MW-7	Total/NA	Water	SM 4500 F C	
500-218112-16	MW-8	Total/NA	Water	SM 4500 F C	
500-218112-17	MW-9	Total/NA	Water	SM 4500 F C	
MB 500-662917/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-662917/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-662626/1-A
Matrix: Water
Analysis Batch: 663015

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/23/22 15:54	06/24/22 17:52	1
Arsenic	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:52	1
Barium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 17:52	1
Beryllium	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:52	1
Cadmium	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 17:52	1
Calcium	<0.20		0.20		mg/L		06/23/22 15:54	06/24/22 17:52	1
Chromium	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 17:52	1
Cobalt	<0.0010		0.0010		mg/L		06/23/22 15:54	06/24/22 17:52	1
Lead	<0.00050		0.00050		mg/L		06/23/22 15:54	06/24/22 17:52	1
Lithium	<0.010		0.010		mg/L		06/23/22 15:54	06/24/22 17:52	1
Molybdenum	<0.0050		0.0050		mg/L		06/23/22 15:54	06/24/22 17:52	1
Selenium	<0.0025		0.0025		mg/L		06/23/22 15:54	06/24/22 17:52	1
Thallium	<0.0020		0.0020		mg/L		06/23/22 15:54	06/24/22 17:52	1

Lab Sample ID: MB 500-662626/1-A
Matrix: Water
Analysis Batch: 663232

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		06/23/22 15:54	06/27/22 12:31	1

Lab Sample ID: LCS 500-662626/2-A
Matrix: Water
Analysis Batch: 663015

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0981		mg/L		98	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Beryllium	0.0500	0.0476		mg/L		95	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	9.79		mg/L		98	80 - 120
Chromium	0.200	0.201		mg/L		100	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.100	0.101		mg/L		101	80 - 120
Molybdenum	1.00	0.932		mg/L		93	80 - 120
Selenium	0.100	0.0988		mg/L		99	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 500-662626/2-A
Matrix: Water
Analysis Batch: 663232

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

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

Lab Sample ID: 500-218112-4 MS
Matrix: Water
Analysis Batch: 663015

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	
Antimony	<0.0030		0.500	0.494		mg/L		99	75 - 125	
Arsenic	0.0015		0.100	0.104		mg/L		103	75 - 125	
Barium	0.15		0.500	0.648		mg/L		100	75 - 125	
Beryllium	<0.0010		0.0500	0.0483		mg/L		97	75 - 125	
Cadmium	<0.00050		0.0500	0.0490		mg/L		98	75 - 125	
Calcium	160		10.0	168	4	mg/L		76	75 - 125	
Chromium	<0.0050		0.200	0.195		mg/L		97	75 - 125	
Cobalt	<0.0010		0.500	0.475		mg/L		95	75 - 125	
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125	
Lithium	0.012		0.100	0.111		mg/L		99	75 - 125	
Molybdenum	0.024		1.00	1.00		mg/L		98	75 - 125	
Selenium	0.0045		0.100	0.108		mg/L		103	75 - 125	
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125	

Lab Sample ID: 500-218112-4 MS
Matrix: Water
Analysis Batch: 663232

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result			Result	Qualifier				Limits	
Boron	1.9		1.00	2.88		mg/L		96	75 - 125	

Lab Sample ID: 500-218112-4 MSD
Matrix: Water
Analysis Batch: 663015

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits		RPD	Limit
Antimony	<0.0030		0.500	0.510		mg/L		102	75 - 125	3	20	
Arsenic	0.0015		0.100	0.107		mg/L		105	75 - 125	2	20	
Barium	0.15		0.500	0.646		mg/L		100	75 - 125	0	20	
Beryllium	<0.0010		0.0500	0.0484		mg/L		97	75 - 125	0	20	
Cadmium	<0.00050		0.0500	0.0508		mg/L		102	75 - 125	4	20	
Calcium	160		10.0	169	4	mg/L		87	75 - 125	1	20	
Chromium	<0.0050		0.200	0.198		mg/L		99	75 - 125	1	20	
Cobalt	<0.0010		0.500	0.482		mg/L		96	75 - 125	2	20	
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125	0	20	
Lithium	0.012		0.100	0.111		mg/L		99	75 - 125	0	20	
Molybdenum	0.024		1.00	1.03		mg/L		101	75 - 125	3	20	
Selenium	0.0045		0.100	0.111		mg/L		106	75 - 125	3	20	
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125	2	20	

Lab Sample ID: 500-218112-4 MSD
Matrix: Water
Analysis Batch: 663232

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec		RPD	
	Result			Result	Qualifier				Limits		RPD	Limit
Boron	1.9		1.00	2.88		mg/L		96	75 - 125	0	20	

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

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

Lab Sample ID: 500-218112-4 DU
Matrix: Water
Analysis Batch: 663015

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0015		0.00166		mg/L		8	20
Barium	0.15		0.154		mg/L		5	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	160		167		mg/L		4	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
Lithium	0.012		0.0132		mg/L		7	20
Molybdenum	0.024		0.0256		mg/L		5	20
Selenium	0.0045		0.00456		mg/L		0.4	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-218112-4 DU
Matrix: Water
Analysis Batch: 663232

Client Sample ID: MW-12
Prep Type: Total Recoverable
Prep Batch: 662626

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	1.9		1.99		mg/L		3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-662549/12-A
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 662549

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		06/23/22 09:55	06/24/22 08:05	1

Lab Sample ID: LCS 500-662549/13-A
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 662549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: 500-218112-9 MS
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Duplicate-2
Prep Type: Total/NA
Prep Batch: 662549

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125

Lab Sample ID: 500-218112-9 MSD
Matrix: Water
Analysis Batch: 662744

Client Sample ID: Duplicate-2
Prep Type: Total/NA
Prep Batch: 662549

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	<0.00020		0.00100	0.000985		mg/L		99	75 - 125	2	20

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QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-218112-9 DU
 Matrix: Water
 Analysis Batch: 662744

Client Sample ID: Duplicate-2
 Prep Type: Total/NA
 Prep Batch: 662549

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

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

Lab Sample ID: MB 500-661852/1
 Matrix: Water
 Analysis Batch: 661852

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			06/20/22 02:39	1

Lab Sample ID: LCS 500-661852/2
 Matrix: Water
 Analysis Batch: 661852

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-661504/16
 Matrix: Water
 Analysis Batch: 661504

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/16/22 11:11	1

Lab Sample ID: LCS 500-661504/17
 Matrix: Water
 Analysis Batch: 661504

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: MB 500-662007/16
 Matrix: Water
 Analysis Batch: 662007

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			06/20/22 13:38	1

Lab Sample ID: LCS 500-662007/17
 Matrix: Water
 Analysis Batch: 662007

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

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-662917/31
 Matrix: Water
 Analysis Batch: 662917

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			06/25/22 16:36	1

Lab Sample ID: LCS 500-662917/32
 Matrix: Water
 Analysis Batch: 662917

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

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-661531/16
 Matrix: Water
 Analysis Batch: 661531

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/16/22 12:36	1

Lab Sample ID: LCS 500-661531/17
 Matrix: Water
 Analysis Batch: 661531

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.9		mg/L		110	88 - 123

Lab Sample ID: 500-218112-2 MS
 Matrix: Water
 Analysis Batch: 661531

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	280		20.0	302	4	mg/L		87	75 - 125

Lab Sample ID: 500-218112-2 MSD
 Matrix: Water
 Analysis Batch: 661531

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	280		20.0	302	4	mg/L		92	75 - 125	0	20

Lab Sample ID: MB 500-661787/16
 Matrix: Water
 Analysis Batch: 661787

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			06/17/22 15:05	1

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

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

Lab Sample ID: LCS 500-661787/17
Matrix: Water
Analysis Batch: 661787

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.3		mg/L		102	88 - 123

Lab Sample ID: 500-218112-10 MS
Matrix: Water
Analysis Batch: 661787

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	350		20.0	365	4	mg/L		85	75 - 125

Lab Sample ID: 500-218112-10 MSD
Matrix: Water
Analysis Batch: 661787

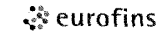
Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	350		20.0	365	4	mg/L		86	75 - 125	0	20

Eurofins TestAmerica, Chicago

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

Chain of Custody Record



Environment Testing
 America

Client Information		Sampler <i>CORY HIGGINS</i>		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1					
Client Contact Mitchel Dolan		Phone <i>630 277 6038</i>		E-Mail Diana Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1					
Company KPRG and Associates, Inc.		PWSID		Analysis Requested						Job # <i>500-218112</i>			
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Total Number of containers Perform MS/MSD (Yes or No) 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4600FC - Fluoride SMA4500CIE Chloride, SMA4500SO4E - Sulfate						Preservation Codes			
City Brookfield		TAT Requested (days)								A HCL		M Hexane	
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								B NaOH		N - None	
Phone 262-781-0475		PO # 4502041043								C Zn Acetate		O AsNaO2	
Email mitcheld@kprginc.com		WO #								D Nitric Acid		P Na2O4S	
Project Name Will County CCR 1N/1S		Project # 50011609		E NaHSO4		Q Na2SO3							
Site Illinois		SSOW#		F MeOH		R Na2S2O3							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)					
						Preservation Code							
1 MW-6		6/14/22		14:25		G		W					
2 MW-10		6/14/22		13:05									
3 MW-11		6/13/22		15:44									
4 MW-12		6/13/22		14:35									
5 MW-13		6/14/22		11:35									
6 MW-14		6/14/22		10:25									
7 MW-15		6/14/22		09:10									
8 DUPLICATE-1													
9 DUPLICATE-2													
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Deliverable Requested I II III IV Other (specify)					Special Instructions/QC Requirements								
Empty Kit Relinquished by		Date		Time		Method of Shipment							
Relinquished by <i>Cory Higgins</i>		Date/Time 6/15/22 0930		Company EETA		Received by <i>J. Walker</i>		Date/Time 6/15/22 0930		Company EETA			
Relinquished by <i>J. Walker</i>		Date/Time 6/15/22 1030		Company EETA		Received by <i>Mike Scott</i>		Date/Time 6/15/22 1030		Company EETA			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: <i>31 → 17, 14 → 20, 9, 17 → 12</i>									



Eurofins TestAmerica, Chicago

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

Chain of Custody Record

eurofins
 Environment & Energy America

500-218112

Client Information		Sampler CORY HIGGINS		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1					
Client Contact: Mitchel Dolan		Phone 630 277 6038		E-Mail Diana Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1					
Company KPRG and Associates Inc.		PWSID		Analysis Requested						Job # 12313.3			
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4500FC - Fluoride SM4500ClE Chloride, SM4500SO4E - Sulfate						Preservation Codes			
City Brookfield		TAT Requested (days)								A HCL M Hexane		B NaOH N None	
State Zip WI 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No								C Zn Acetate O AsNaO2		D Nitric Acid P Na2O4S	
Phone 262-781-0475		PO #: 4502041043								E NaHSO4 Q Na2SO3		F MeOH R Na2S2O3	
Email mitcheld@kprginc.com		WO #								G Amchlor S H2SO4		H Ascorbic Acid T TSP Dodecahydrate	
Project Name Will County CCR 1N/1S		Project # 50011609		I Ice U Acetone		J DI Water V MCAA		K EDTA W pH 4-5					
Site Illinois		SSOW#		L EDA Z other (specify)		Other:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note.			
MW-1		6/15/22		08:35		G		W		5 *Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl			
MW-2		6/15/22		09:55									
MW-3		6/16/22		11:40									
MW-4		6/16/22		10:15									
MW-5		6/16/22		09:10									
MW-7		6/15/22		13:55									
MW-8		6/15/22		12:30									
MW-9		6/15/22		11:05									
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I II III, IV Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipment:							
Relinquished by Cory Higgins		Date/Time 6/16/22		Company KPRG		Received by Phylla Buckley		Date/Time 6/16/22 1350		Company EUA			
Relinquished by		Date/Time		Company		Received by		Date/Time		Company			
Relinquished by		Date/Time		Company		Received by		Date/Time		Company			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks 5.5, 4.0, 5.5, 4.1, 5.4 → 4.0,									

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Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-218112-1

Login Number: 218112

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7,0.9,1.2,4.4,4.1,4.0
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-6

Lab Sample ID: 500-218112-1

Date Collected: 06/14/22 14:25

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 17:59	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 12:38	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:16	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 02:57	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	661504	06/16/22 11:15	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:04	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661531	06/16/22 12:39	LP	TAL CHI

Client Sample ID: MW-10

Lab Sample ID: 500-218112-2

Date Collected: 06/14/22 13:05

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:02	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 12:42	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 02:59	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:15	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:07	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661531	06/16/22 12:38	LP	TAL CHI

Client Sample ID: MW-11

Lab Sample ID: 500-218112-3

Date Collected: 06/13/22 15:44

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 12:45	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:02	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:16	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:10	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	661531	06/16/22 12:39	LP	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-12
Date Collected: 06/13/22 14:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663232	06/27/22 12:48	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:22	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:54	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:14	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	661531	06/16/22 12:40	LP	TAL CHI

Client Sample ID: MW-13
Date Collected: 06/14/22 11:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663232	06/27/22 13:12	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663608	06/29/22 14:01	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:54	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:17	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	661531	06/16/22 12:41	LP	TAL CHI

Client Sample ID: MW-14
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:19	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:10	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:55	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:20	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661531	06/16/22 12:41	LP	TAL CHI

Eurofins Chicago

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-15
Date Collected: 06/14/22 09:10
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 13:24	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:55	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:23	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661531	06/16/22 12:42	LP	TAL CHI

Client Sample ID: Duplicate-1
Date Collected: 06/13/22 00:00
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663232	06/27/22 13:27	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:15	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:55	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:26	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661531	06/16/22 12:42	LP	TAL CHI

Client Sample ID: Duplicate-2
Date Collected: 06/13/22 00:00
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 13:31	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 08:33	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	661504	06/16/22 11:56	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:29	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661531	06/16/22 12:42	LP	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-1

Date Collected: 06/15/22 08:35

Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 13:34	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:09	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:20	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:32	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:06	LP	TAL CHI

Client Sample ID: MW-2

Date Collected: 06/15/22 09:55

Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:45	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:11	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:45	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:06	LP	TAL CHI

Client Sample ID: MW-3

Date Collected: 06/16/22 11:40

Date Received: 06/16/22 13:50

Lab Sample ID: 500-218112-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 18:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 13:48	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:13	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:49	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:07	LP	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-4

Lab Sample ID: 500-218112-13

Date Collected: 06/16/22 10:15

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:00	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:51	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:15	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:28	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:39	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:52	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		50	661787	06/17/22 15:38	LP	TAL CHI

Client Sample ID: MW-5

Lab Sample ID: 500-218112-14

Date Collected: 06/16/22 09:10

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:04	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:55	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	662007	06/20/22 13:40	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:55	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661787	06/17/22 15:39	LP	TAL CHI

Client Sample ID: MW-7

Lab Sample ID: 500-218112-15

Date Collected: 06/15/22 13:55

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:14	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	663232	06/27/22 13:58	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:20	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	662007	06/20/22 13:58	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 17:59	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	661787	06/17/22 15:39	LP	TAL CHI

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-1

Client Sample ID: MW-8

Lab Sample ID: 500-218112-16

Date Collected: 06/15/22 12:30

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:18	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	663232	06/27/22 14:02	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:22	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	662007	06/20/22 13:59	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 18:02	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:39	LP	TAL CHI

Client Sample ID: MW-9

Lab Sample ID: 500-218112-17

Date Collected: 06/15/22 11:05

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	663015	06/24/22 19:21	FXG	TAL CHI
Total Recoverable	Prep	3005A			662626	06/23/22 15:54	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	663232	06/27/22 14:05	FXG	TAL CHI
Total/NA	Prep	7470A			662549	06/23/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	662744	06/24/22 09:24	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	661852	06/20/22 03:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	662007	06/20/22 13:59	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	662917	06/25/22 18:05	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	661787	06/17/22 15:40	LP	TAL CHI

Laboratory References:

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

ANALYTICAL REPORT

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

Laboratory Job ID: 500-218112-2
Client Project/Site: Will County CCR

For:
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
7/15/2022 8:10:51 AM

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

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



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Job ID: 500-218112-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-218112-2

Comments

No additional comments.

Receipt

The samples were received on 6/15/2022 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 6 coolers at receipt time were 0.9° C, 1.2° C, 1.7° C, 4.0° C, 4.1° C and 4.4° C.

RAD

Methods 903.0, 9315: Radium-226 batch 570468

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-6 (500-218112-1), MW-10 (500-218112-2), MW-11 (500-218112-3), MW-12 (500-218112-4), MW-13 (500-218112-5), MW-14 (500-218112-6), MW-15 (500-218112-7), Duplicate-1 (500-218112-8), Duplicate-2 (500-218112-9), (LCS 160-570468/2-A), (MB 160-570468/1-A) and (500-218112-C-1-A DU)

Methods 903.0, 9315: Radium-226 batch 570930

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-1 (500-218112-10), MW-2 (500-218112-11), MW-3 (500-218112-12), MW-4 (500-218112-13), MW-5 (500-218112-14), MW-7 (500-218112-15), MW-8 (500-218112-16), MW-9 (500-218112-17), (LCS 160-570930/2-A), (MB 160-570930/1-A) and (500-218112-E-10-C DU)

Method 904.0: Radium-228 batch 570471

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-13 (500-218112-5). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 570471

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-6 (500-218112-1), MW-10 (500-218112-2), MW-11 (500-218112-3), MW-12 (500-218112-4), MW-13 (500-218112-5), MW-14 (500-218112-6), MW-15 (500-218112-7), Duplicate-1 (500-218112-8), Duplicate-2 (500-218112-9), (LCS 160-570471/2-A), (MB 160-570471/1-A) and (500-218112-C-1-B DU)

Methods 904.0, 9320: Radium 228 Batch 160-570937

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-1 (500-218112-10), MW-2 (500-218112-11), MW-3 (500-218112-12), MW-4 (500-218112-13), MW-5 (500-218112-14), MW-7 (500-218112-15), MW-8 (500-218112-16), MW-9 (500-218112-17), (LCS 160-570937/2-A), (MB 160-570937/1-A) and (500-218112-E-10-B DU)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

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 St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-218112-1	MW-6	Water	06/14/22 14:25	06/15/22 10:30
500-218112-2	MW-10	Water	06/14/22 13:05	06/15/22 10:30
500-218112-3	MW-11	Water	06/13/22 15:44	06/15/22 10:30
500-218112-4	MW-12	Water	06/13/22 14:35	06/15/22 10:30
500-218112-5	MW-13	Water	06/14/22 11:35	06/15/22 10:30
500-218112-6	MW-14	Water	06/14/22 10:25	06/15/22 10:30
500-218112-7	MW-15	Water	06/14/22 09:10	06/15/22 10:30
500-218112-8	Duplicate-1	Water	06/13/22 00:00	06/15/22 10:30
500-218112-9	Duplicate-2	Water	06/13/22 00:00	06/15/22 10:30
500-218112-10	MW-1	Water	06/15/22 08:35	06/16/22 13:50
500-218112-11	MW-2	Water	06/15/22 09:55	06/16/22 13:50
500-218112-12	MW-3	Water	06/16/22 11:40	06/16/22 13:50
500-218112-13	MW-4	Water	06/16/22 10:15	06/16/22 13:50
500-218112-14	MW-5	Water	06/16/22 09:10	06/16/22 13:50
500-218112-15	MW-7	Water	06/15/22 13:55	06/16/22 13:50
500-218112-16	MW-8	Water	06/15/22 12:30	06/16/22 13:50
500-218112-17	MW-9	Water	06/15/22 11:05	06/16/22 13:50

- 1
- 2
- 3
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- 13

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-6

Lab Sample ID: 500-218112-1

Date Collected: 06/14/22 14:25

Matrix: Water

Date Received: 06/15/22 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.147		0.0785	0.0796	1.00	0.0950	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.08		0.405	0.417	1.00	0.504	pCi/L	06/17/22 13:47	06/24/22 10:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					06/17/22 13:47	06/24/22 10:47	1
Y Carrier	86.0		40 - 110					06/17/22 13:47	06/24/22 10:47	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	1.22		0.413	0.425	5.00	0.504	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-10
 Date Collected: 06/14/22 13:05
 Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-2
 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	0.179		0.123	0.124	1.00	0.177	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.37		0.536	0.550	1.00	0.683	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	86.7		40 - 110					06/17/22 13:47	06/24/22 10:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.55		0.550	0.564	5.00	0.683	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-11
Date Collected: 06/13/22 15:44
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-3
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	0.428		0.166	0.170	1.00	0.172	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.5		40 - 110					06/17/22 13:19	07/11/22 08:53	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.01		0.656	0.663	1.00	0.971	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.5		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	85.2		40 - 110					06/17/22 13:47	06/24/22 10:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.44		0.677	0.684	5.00	0.971	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-12
Date Collected: 06/13/22 14:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-4
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	0.201		0.0946	0.0963	1.00	0.116	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					06/17/22 13:19	07/11/22 08:53	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	0.756		0.363	0.369	1.00	0.505	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	84.9		40 - 110					06/17/22 13:47	06/24/22 10:48	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	0.957		0.375	0.381	5.00	0.505	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-13
Date Collected: 06/14/22 11:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-5
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	0.730		0.255	0.264	1.00	0.260	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.0		40 - 110					06/17/22 13:19	07/11/22 08:53	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	0.857	U G	0.781	0.784	1.00	1.24	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.0		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	86.4		40 - 110					06/17/22 13:47	06/24/22 10:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.59		0.822	0.827	5.00	1.24	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-14
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-6
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	0.443		0.116	0.123	1.00	0.0895	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					06/17/22 13:19	07/11/22 08:53	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	0.691		0.331	0.337	1.00	0.448	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	87.1		40 - 110					06/17/22 13:47	06/24/22 10:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.13		0.351	0.359	5.00	0.448	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-15
Date Collected: 06/14/22 09:10
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-7
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	0.203		0.0877	0.0896	1.00	0.105	pCi/L	06/17/22 13:19	07/11/22 08:53	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/17/22 13:19	07/11/22 08:53	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	0.337	U	0.288	0.290	1.00	0.453	pCi/L	06/17/22 13:47	06/24/22 10:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	102		40 - 110					06/17/22 13:47	06/24/22 10:48	1
Y Carrier	87.5		40 - 110					06/17/22 13:47	06/24/22 10:48	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	0.539		0.301	0.304	5.00	0.453	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: Duplicate-1

Lab Sample ID: 500-218112-8

Date Collected: 06/13/22 00:00

Matrix: Water

Date Received: 06/15/22 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0245	U	0.0484	0.0485	1.00	0.0868	pCi/L	06/17/22 13:19	07/11/22 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					06/17/22 13:19	07/11/22 13:32	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	0.740		0.303	0.310	1.00	0.376	pCi/L	06/17/22 13:47	06/24/22 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	106		40 - 110					06/17/22 13:47	06/24/22 10:49	1
Y Carrier	86.4		40 - 110					06/17/22 13:47	06/24/22 10:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.765		0.307	0.314	5.00	0.376	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: Duplicate-2

Lab Sample ID: 500-218112-9

Date Collected: 06/13/22 00:00

Matrix: Water

Date Received: 06/15/22 10:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.235		0.0943	0.0966	1.00	0.113	pCi/L	06/17/22 13:19	07/11/22 13:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					06/17/22 13:19	07/11/22 13:32	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	0.976		0.346	0.357	1.00	0.423	pCi/L	06/17/22 13:47	06/24/22 10:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	105		40 - 110					06/17/22 13:47	06/24/22 10:49	1
Y Carrier	84.5		40 - 110					06/17/22 13:47	06/24/22 10:49	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.21		0.359	0.370	5.00	0.423	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-1

Lab Sample ID: 500-218112-10

Date Collected: 06/15/22 08:35

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00679	U	0.0554	0.0554	1.00	0.114	pCi/L	06/21/22 13:46	07/13/22 12:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					06/21/22 13:46	07/13/22 12:54	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	0.951		0.337	0.348	1.00	0.404	pCi/L	06/21/22 14:21	06/28/22 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.2		40 - 110					06/21/22 14:21	06/28/22 11:11	1
Y Carrier	92.7		40 - 110					06/21/22 14:21	06/28/22 11:11	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	0.945		0.342	0.352	5.00	0.404	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-2

Lab Sample ID: 500-218112-11

Date Collected: 06/15/22 09:55

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.286		0.0993	0.103	1.00	0.0939	pCi/L	06/21/22 13:46	07/13/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					06/21/22 13:46	07/13/22 12:55	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	0.883		0.350	0.360	1.00	0.440	pCi/L	06/21/22 14:21	06/28/22 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		40 - 110					06/21/22 14:21	06/28/22 11:11	1
Y Carrier	95.7		40 - 110					06/21/22 14:21	06/28/22 11:11	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	1.17		0.364	0.374	5.00	0.440	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-3

Lab Sample ID: 500-218112-12

Date Collected: 06/16/22 11:40

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.277		0.113	0.116	1.00	0.131	pCi/L	06/21/22 13:46	07/13/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					06/21/22 13:46	07/13/22 12:55	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.10		0.420	0.432	1.00	0.524	pCi/L	06/21/22 14:21	06/28/22 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.5		40 - 110					06/21/22 14:21	06/28/22 11:11	1
Y Carrier	93.5		40 - 110					06/21/22 14:21	06/28/22 11:11	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	1.38		0.435	0.447	5.00	0.524	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-4

Lab Sample ID: 500-218112-13

Date Collected: 06/16/22 10:15

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220		0.113	0.114	1.00	0.149	pCi/L	06/21/22 13:46	07/13/22 12:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					06/21/22 13:46	07/13/22 12:55	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.17		0.407	0.421	1.00	0.489	pCi/L	06/21/22 14:21	06/28/22 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		40 - 110					06/21/22 14:21	06/28/22 11:11	1
Y Carrier	93.8		40 - 110					06/21/22 14:21	06/28/22 11:11	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	1.39		0.422	0.436	5.00	0.489	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-5

Lab Sample ID: 500-218112-14

Date Collected: 06/16/22 09:10

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0913		0.0656	0.0661	1.00	0.0871	pCi/L	06/21/22 13:46	07/13/22 12:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/21/22 13:46	07/13/22 12:56	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.270	U	0.289	0.290	1.00	0.471	pCi/L	06/21/22 14:21	06/28/22 11:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/21/22 14:21	06/28/22 11:12	1
Y Carrier	95.7		40 - 110					06/21/22 14:21	06/28/22 11:12	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	0.361	U	0.296	0.297	5.00	0.471	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-7

Lab Sample ID: 500-218112-15

Date Collected: 06/15/22 13:55

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.427		0.114	0.120	1.00	0.0961	pCi/L	06/21/22 13:47	07/13/22 12:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/21/22 13:47	07/13/22 12:57	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	0.874		0.352	0.361	1.00	0.461	pCi/L	06/21/22 14:21	06/28/22 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.2		40 - 110					06/21/22 14:21	06/28/22 11:13	1
Y Carrier	95.0		40 - 110					06/21/22 14:21	06/28/22 11:13	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.30		0.370	0.380	5.00	0.461	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-8

Lab Sample ID: 500-218112-16

Date Collected: 06/15/22 12:30

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.259		0.0984	0.101	1.00	0.0968	pCi/L	06/21/22 13:47	07/13/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					06/21/22 13:47	07/13/22 13:37	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.13		0.416	0.429	1.00	0.519	pCi/L	06/21/22 14:21	06/28/22 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.8		40 - 110					06/21/22 14:21	06/28/22 11:13	1
Y Carrier	95.7		40 - 110					06/21/22 14:21	06/28/22 11:13	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	1.39		0.427	0.441	5.00	0.519	pCi/L		07/14/22 23:35	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-9

Lab Sample ID: 500-218112-17

Date Collected: 06/15/22 11:05

Matrix: Water

Date Received: 06/16/22 13:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.0889	0.0895	1.00	0.135	pCi/L	06/21/22 14:18	07/13/22 13:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					06/21/22 14:18	07/13/22 13:37	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.102	U	0.178	0.178	1.00	0.390	pCi/L	06/21/22 14:21	06/28/22 11:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.3		40 - 110					06/21/22 14:21	06/28/22 11:13	1
Y Carrier	96.1		40 - 110					06/21/22 14:21	06/28/22 11:13	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	0.0106	U	0.199	0.199	5.00	0.390	pCi/L		07/14/22 23:35	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Rad

Prep Batch: 570468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	PrecSep-21	
500-218112-2	MW-10	Total/NA	Water	PrecSep-21	
500-218112-3	MW-11	Total/NA	Water	PrecSep-21	
500-218112-4	MW-12	Total/NA	Water	PrecSep-21	
500-218112-5	MW-13	Total/NA	Water	PrecSep-21	
500-218112-6	MW-14	Total/NA	Water	PrecSep-21	
500-218112-7	MW-15	Total/NA	Water	PrecSep-21	
500-218112-8	Duplicate-1	Total/NA	Water	PrecSep-21	
500-218112-9	Duplicate-2	Total/NA	Water	PrecSep-21	
MB 160-570468/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-570468/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-218112-1 DU	MW-6	Total/NA	Water	PrecSep-21	

Prep Batch: 570471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-1	MW-6	Total/NA	Water	PrecSep_0	
500-218112-2	MW-10	Total/NA	Water	PrecSep_0	
500-218112-3	MW-11	Total/NA	Water	PrecSep_0	
500-218112-4	MW-12	Total/NA	Water	PrecSep_0	
500-218112-5	MW-13	Total/NA	Water	PrecSep_0	
500-218112-6	MW-14	Total/NA	Water	PrecSep_0	
500-218112-7	MW-15	Total/NA	Water	PrecSep_0	
500-218112-8	Duplicate-1	Total/NA	Water	PrecSep_0	
500-218112-9	Duplicate-2	Total/NA	Water	PrecSep_0	
MB 160-570471/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-570471/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-218112-1 DU	MW-6	Total/NA	Water	PrecSep_0	

Prep Batch: 570930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-10	MW-1	Total/NA	Water	PrecSep-21	
500-218112-11	MW-2	Total/NA	Water	PrecSep-21	
500-218112-12	MW-3	Total/NA	Water	PrecSep-21	
500-218112-13	MW-4	Total/NA	Water	PrecSep-21	
500-218112-14	MW-5	Total/NA	Water	PrecSep-21	
500-218112-15	MW-7	Total/NA	Water	PrecSep-21	
500-218112-16	MW-8	Total/NA	Water	PrecSep-21	
500-218112-17	MW-9	Total/NA	Water	PrecSep-21	
MB 160-570930/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-570930/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-218112-10 DU	MW-1	Total/NA	Water	PrecSep-21	

Prep Batch: 570937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-10	MW-1	Total/NA	Water	PrecSep_0	
500-218112-11	MW-2	Total/NA	Water	PrecSep_0	
500-218112-12	MW-3	Total/NA	Water	PrecSep_0	
500-218112-13	MW-4	Total/NA	Water	PrecSep_0	
500-218112-14	MW-5	Total/NA	Water	PrecSep_0	
500-218112-15	MW-7	Total/NA	Water	PrecSep_0	
500-218112-16	MW-8	Total/NA	Water	PrecSep_0	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Rad (Continued)

Prep Batch: 570937 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-218112-17	MW-9	Total/NA	Water	PrecSep_0	
MB 160-570937/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-570937/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-218112-10 DU	MW-1	Total/NA	Water	PrecSep_0	

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

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-570468/1-A
Matrix: Water
Analysis Batch: 573478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570468

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.005455	U	0.0338	0.0338	1.00	0.0770	pCi/L	06/17/22 13:19	07/11/22 08:52	1
Carrier	MB		Limits							
Ba Carrier	%Yield	MB Qualifier	40 - 110							
	103									
								Prepared	Analyzed	Dil Fac
								06/17/22 13:19	07/11/22 08:52	1

Lab Sample ID: LCS 160-570468/2-A
Matrix: Water
Analysis Batch: 573478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570468

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.493		0.983	1.00	0.0829	pCi/L	84	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	102								

Lab Sample ID: 500-218112-1 DU
Matrix: Water
Analysis Batch: 573478

Client Sample ID: MW-6
Prep Type: Total/NA
Prep Batch: 570468

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.147		0.07999	U	0.0622	1.00	0.0886	pCi/L	0.47	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	98.8									

Lab Sample ID: MB 160-570930/1-A
Matrix: Water
Analysis Batch: 573688

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570930

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02463	U	0.0516	0.0517	1.00	0.0937	pCi/L	06/21/22 13:46	07/13/22 09:15	1
Carrier	MB		Limits							
Ba Carrier	%Yield	MB Qualifier	40 - 110							
	93.4									
								Prepared	Analyzed	Dil Fac
								06/21/22 13:46	07/13/22 09:15	1

Lab Sample ID: LCS 160-570930/2-A
Matrix: Water
Analysis Batch: 573688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570930

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.755		1.03	1.00	0.128	pCi/L	86	75 - 125

Eurofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

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

Lab Sample ID: LCS 160-570930/2-A
Matrix: Water
Analysis Batch: 573688

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570930

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	90.6		40 - 110

Lab Sample ID: 500-218112-10 DU
Matrix: Water
Analysis Batch: 573688

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 570930

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-226	-0.00679	U	0.08883	U	0.0695	1.00	0.101	pCi/L	0.77	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		40 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-570471/1-A
Matrix: Water
Analysis Batch: 571618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570471

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.5165		0.309	0.313	1.00	0.455	pCi/L	06/17/22 13:47	06/24/22 10:47	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	103		40 - 110	06/17/22 13:47	06/24/22 10:47	1
Y Carrier	87.9		40 - 110	06/17/22 13:47	06/24/22 10:47	1

Lab Sample ID: LCS 160-570471/2-A
Matrix: Water
Analysis Batch: 571618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570471

Analyte	Spike Added	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec
		Result	Qual	Uncert. (2σ+/-)					Limits
Radium-228	8.51	8.862		1.15	1.00	0.453	pCi/L	104	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		40 - 110
Y Carrier	88.6		40 - 110

Lab Sample ID: 500-218112-1 DU
Matrix: Water
Analysis Batch: 571618

Client Sample ID: MW-6
Prep Type: Total/NA
Prep Batch: 570471

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					Limit
Radium-228	1.08		0.7627		0.324	1.00	0.405	pCi/L	0.42	1

Euofins Chicago

QC Sample Results

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

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

Lab Sample ID: 500-218112-1 DU
Matrix: Water
Analysis Batch: 571618

Client Sample ID: MW-6
Prep Type: Total/NA
Prep Batch: 570471

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.8		40 - 110
Y Carrier	89.0		40 - 110

Lab Sample ID: MB 160-570937/1-A
Matrix: Water
Analysis Batch: 572035

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570937

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.8325		0.333	0.342	1.00	0.412	pCi/L	06/21/22 14:21	06/28/22 11:07	1

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	93.4		40 - 110	06/21/22 14:21	06/28/22 11:07	1
Y Carrier	89.3		40 - 110	06/21/22 14:21	06/28/22 11:07	1

Lab Sample ID: LCS 160-570937/2-A
Matrix: Water
Analysis Batch: 572035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570937

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	90.6		40 - 110
Y Carrier	89.0		40 - 110

Lab Sample ID: 500-218112-10 DU
Matrix: Water
Analysis Batch: 572035

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 570937

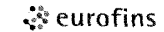
Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	0.951		0.9216		0.346	1.00	0.423	pCi/L	0.04	1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	102		40 - 110
Y Carrier	93.8		40 - 110

Eurofins TestAmerica, Chicago

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

Chain of Custody Record



Environment Testing
 America

Client Information		Sampler <i>CORY HIGGINS</i>		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No 500-92124-41061 1					
Client Contact Mitchel Dolan		Phone <i>630 277 6038</i>		E-Mail Diana Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1					
Company KPRG and Associates, Inc.		PWSID		Analysis Requested						Job # <i>500-218112</i>			
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Total Number of containers Perform MS/MSD (Yes or No) 903.0, 904.0, Radium Combined 6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury 2540C TDS, 4500FC - Fluoride SMA4500CIE Chloride, SMA4500SO4E - Sulfate						Preservation Codes			
City Brookfield		TAT Requested (days)								A HCL		M Hexane	
State Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								B NaOH		N - None	
Phone 262-781-0475		PO # 4502041043								C Zn Acetate		O AsNaO2	
Email mitcheld@kprginc.com		WO #								D Nitric Acid		P Na2O4S	
Project Name Will County CCR 1N/1S		Project # 50011609		E NaHSO4		Q Na2SO3		F MeOH		R Na2S2O3			
Site Illinois		SSOW#		G Amchlor		S H2SO4		H Ascorbic Acid		T TSP Dodecahydrate			
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Other			
						Preservation Code		Field Filtered Sample (Yes or No)		Special Instructions/Note:			
								D		*Metals List Sb,As,Ba,Be,B,Cd,Ca,Cr,Co,Pb,Mo,Se,Tl			
<i>1 MW-6</i>		<i>6/14/22</i>		<i>14:25</i>		<i>G</i>		<i>W</i>		<i>5</i>			
<i>2 MW-10</i>		<i>6/14/22</i>		<i>13:05</i>									
<i>3 MW-11</i>		<i>6/13/22</i>		<i>15:44</i>									
<i>4 MW-12</i>		<i>6/13/22</i>		<i>14:35</i>									
<i>5 MW-13</i>		<i>6/14/22</i>		<i>11:35</i>									
<i>6 MW-14</i>		<i>6/14/22</i>		<i>10:25</i>									
<i>7 MW-15</i>		<i>6/14/22</i>		<i>09:10</i>									
<i>8 DUPLICATE-1</i>													
<i>9 DUPLICATE-2</i>													
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipment							
Relinquished by <i>Cory Higgins</i>		Date/Time <i>6/15/22 0930</i>		Company <i>ETA</i>		Received by <i>J. Walker</i>		Date/Time <i>6/15/22 0930</i>		Company <i>ETA</i>			
Relinquished by <i>J. Walker</i>		Date/Time <i>6/15/22 1030</i>		Company <i>ETA</i>		Received by <i>Michelle Scott</i>		Date/Time <i>6/15/22 1030</i>		Company <i>ETA</i>			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: <i>31 → 17, 14 → 20, 9, 17 → 12</i>									



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-218112-2

Login Number: 218112

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7,0.9,1.2,4.4,4.1,4.0
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-218112-2

Login Number: 218112

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 06/16/22 11:40 AM

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



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-218112-2

Login Number: 218112

List Number: 3

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 06/17/22 12:27 PM

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



Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-6

Lab Sample ID: 500-218112-1

Date Collected: 06/14/22 14:25

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:47	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-10

Lab Sample ID: 500-218112-2

Date Collected: 06/14/22 13:05

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-11

Lab Sample ID: 500-218112-3

Date Collected: 06/13/22 15:44

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-12

Lab Sample ID: 500-218112-4

Date Collected: 06/13/22 14:35

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-13
Date Collected: 06/14/22 11:35
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-14
Date Collected: 06/14/22 10:25
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-15
Date Collected: 06/14/22 09:10
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573478	07/11/22 08:53	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:48	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: Duplicate-1
Date Collected: 06/13/22 00:00
Date Received: 06/15/22 10:30

Lab Sample ID: 500-218112-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:32	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: Duplicate-2

Lab Sample ID: 500-218112-9

Date Collected: 06/13/22 00:00

Matrix: Water

Date Received: 06/15/22 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570468	06/17/22 13:19	MS	TAL SL
Total/NA	Analysis	903.0		1	573477	07/11/22 13:32	FLC	TAL SL
Total/NA	Prep	PrecSep_0			570471	06/17/22 13:47	MS	TAL SL
Total/NA	Analysis	904.0		1	571618	06/24/22 10:49	FLC	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-1

Lab Sample ID: 500-218112-10

Date Collected: 06/15/22 08:35

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573688	07/13/22 12:54	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:11	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-2

Lab Sample ID: 500-218112-11

Date Collected: 06/15/22 09:55

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573688	07/13/22 12:55	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:11	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-3

Lab Sample ID: 500-218112-12

Date Collected: 06/16/22 11:40

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573688	07/13/22 12:55	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:11	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-4

Lab Sample ID: 500-218112-13

Date Collected: 06/16/22 10:15

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573688	07/13/22 12:55	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:11	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-5

Lab Sample ID: 500-218112-14

Date Collected: 06/16/22 09:10

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:46	MS	TAL SL
Total/NA	Analysis	903.0		1	573673	07/13/22 12:56	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:12	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-7

Lab Sample ID: 500-218112-15

Date Collected: 06/15/22 13:55

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:47	MS	TAL SL
Total/NA	Analysis	903.0		1	573673	07/13/22 12:57	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:13	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Client Sample ID: MW-8

Lab Sample ID: 500-218112-16

Date Collected: 06/15/22 12:30

Matrix: Water

Date Received: 06/16/22 13:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			570930	06/21/22 13:47	MS	TAL SL
Total/NA	Analysis	903.0		1	573673	07/13/22 13:37	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:13	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

Client Sample ID: MW-9

Lab Sample ID: 500-218112-17

Date Collected: 06/15/22 11:05

Matrix: Water

Date Received: 06/16/22 13:50

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			570930	06/21/22 14:18	MS	TAL SL
Total/NA	Analysis	903.0		1	573673	07/13/22 13:37	JCB	TAL SL
Total/NA	Prep	PrecSep_0			570937	06/21/22 14:21	MS	TAL SL
Total/NA	Analysis	904.0		1	572035	06/28/22 11:13	CLP	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	573992	07/14/22 23:35	EMH	TAL SL

Laboratory References:

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

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

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)
500-218112-1	MW-6	84.5
500-218112-1 DU	MW-6	98.8
500-218112-2	MW-10	86.0
500-218112-3	MW-11	61.5
500-218112-4	MW-12	96.5
500-218112-5	MW-13	73.0
500-218112-6	MW-14	93.0
500-218112-7	MW-15	102
500-218112-8	Duplicate-1	106
500-218112-9	Duplicate-2	105
500-218112-10	MW-1	99.2
500-218112-10 DU	MW-1	102
500-218112-11	MW-2	88.4
500-218112-12	MW-3	77.5
500-218112-13	MW-4	82.8
500-218112-14	MW-5	96.2
500-218112-15	MW-7	96.2
500-218112-16	MW-8	81.8
500-218112-17	MW-9	86.3
LCS 160-570468/2-A	Lab Control Sample	102
LCS 160-570930/2-A	Lab Control Sample	90.6
MB 160-570468/1-A	Method Blank	103
MB 160-570930/1-A	Method Blank	93.4

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)
500-218112-1	MW-6	84.5	86.0
500-218112-1 DU	MW-6	98.8	89.0
500-218112-2	MW-10	86.0	86.7
500-218112-3	MW-11	61.5	85.2
500-218112-4	MW-12	96.5	84.9
500-218112-5	MW-13	73.0	86.4
500-218112-6	MW-14	93.0	87.1
500-218112-7	MW-15	102	87.5
500-218112-8	Duplicate-1	106	86.4
500-218112-9	Duplicate-2	105	84.5
500-218112-10	MW-1	99.2	92.7
500-218112-10 DU	MW-1	102	93.8
500-218112-11	MW-2	88.4	95.7
500-218112-12	MW-3	77.5	93.5
500-218112-13	MW-4	82.8	93.8
500-218112-14	MW-5	96.2	95.7
500-218112-15	MW-7	96.2	95.0

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-218112-2

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

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-218112-16	MW-8	81.8	95.7
500-218112-17	MW-9	86.3	96.1
LCS 160-570471/2-A	Lab Control Sample	102	88.6
LCS 160-570937/2-A	Lab Control Sample	90.6	89.0
MB 160-570471/1-A	Method Blank	103	87.9
MB 160-570937/1-A	Method Blank	93.4	89.3

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

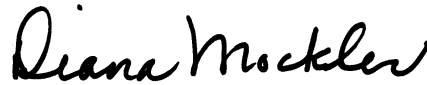
ANALYTICAL REPORT

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

Laboratory Job ID: 500-221304-1
Client Project/Site: Will County CCR
Sampling Event: Quarterly GW Monitoring

For:
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
9/23/2022 8:26:14 AM

Diana Mockler, Project Manager I
(219)252-7570

Diana.Mockler@et.eurofinsus.com

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results through



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

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



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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

Job ID: 500-221304-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-221304-1**

Comments

No additional comments.

Receipt

The samples were received on 8/24/2022 4:30 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 1.1° C, 1.1° C and 2.6° C.

Metals

Method 6020A: The initial calibration verification low level (ICVL) result for batch 500-672787 was above the upper control limit for Cadmium. The samples were bracketed by CCVL that were within control limits and have been reported as qualified data.

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

General Chemistry

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



Method Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221304-1	MW-11	Water	08/23/22 15:37	08/24/22 16:30
500-221304-2	MW-12	Water	08/23/22 16:26	08/24/22 16:30
500-221304-3	MW-05	Water	08/25/22 09:08	08/26/22 09:40
500-221304-4	MW-06	Water	08/25/22 10:01	08/26/22 09:40
500-221304-5	MW-09	Water	08/25/22 14:03	08/26/22 09:40
500-221304-6	MW-10	Water	08/25/22 15:32	08/26/22 09:40

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Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Client Sample ID: MW-11
Date Collected: 08/23/22 15:37
Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-1
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		08/31/22 08:26	08/31/22 21:56	1
Arsenic	0.0082		0.0010		mg/L		08/31/22 08:26	08/31/22 21:56	1
Barium	0.12		0.0025		mg/L		08/31/22 08:26	08/31/22 21:56	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 21:56	1
Boron	2.5		0.50		mg/L		08/31/22 08:26	09/01/22 15:39	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 21:56	1
Calcium	110		0.20		mg/L		08/31/22 08:26	08/31/22 21:56	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 21:56	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 21:56	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 21:56	1
Lithium	<0.010		0.010		mg/L		08/31/22 08:26	08/31/22 21:56	1
Molybdenum	0.033		0.0050		mg/L		08/31/22 08:26	08/31/22 21:56	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 21:56	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 21:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	740		10		mg/L			08/30/22 15:20	1
Chloride	140		20		mg/L			08/25/22 14:41	10
Fluoride	0.53		0.10		mg/L			09/02/22 14:11	1
Sulfate	160		50		mg/L			08/25/22 16:02	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Client Sample ID: MW-12
Date Collected: 08/23/22 16:26
Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-2
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		08/31/22 08:26	08/31/22 21:59	1
Arsenic	0.0011		0.0010		mg/L		08/31/22 08:26	08/31/22 21:59	1
Barium	0.18		0.0025		mg/L		08/31/22 08:26	08/31/22 21:59	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 21:59	1
Boron	1.9		0.50		mg/L		08/31/22 08:26	09/01/22 15:43	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 21:59	1
Calcium	150		0.20		mg/L		08/31/22 08:26	08/31/22 21:59	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 21:59	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 21:59	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 21:59	1
Lithium	0.013		0.010		mg/L		08/31/22 08:26	08/31/22 21:59	1
Molybdenum	0.015		0.0050		mg/L		08/31/22 08:26	08/31/22 21:59	1
Selenium	0.0086		0.0025		mg/L		08/31/22 08:26	08/31/22 21:59	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 21:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			08/30/22 15:22	1
Chloride	170		20		mg/L			08/25/22 14:42	10
Fluoride	0.37		0.10		mg/L			09/02/22 14:20	1
Sulfate	160		50		mg/L			08/25/22 16:12	10

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Client Sample ID: MW-05
Date Collected: 08/25/22 09:08
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-3
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		08/31/22 08:26	08/31/22 22:03	1
Arsenic	0.0043		0.0010		mg/L		08/31/22 08:26	08/31/22 22:03	1
Barium	0.072		0.0025		mg/L		08/31/22 08:26	08/31/22 22:03	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:03	1
Boron	6.6		1.0		mg/L		08/31/22 08:26	09/01/22 15:46	20
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 22:03	1
Calcium	130		0.20		mg/L		08/31/22 08:26	08/31/22 22:03	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 22:03	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:03	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 22:03	1
Lithium	0.016		0.010		mg/L		08/31/22 08:26	08/31/22 22:03	1
Molybdenum	0.061		0.0050		mg/L		08/31/22 08:26	08/31/22 22:03	1
Selenium	0.0056		0.0025		mg/L		08/31/22 08:26	08/31/22 22:03	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 22:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			09/01/22 15:29	1
Chloride	20		4.0		mg/L			08/29/22 13:42	2
Fluoride	0.40		0.10		mg/L			09/02/22 14:23	1
Sulfate	300		100		mg/L			08/29/22 15:32	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Client Sample ID: MW-06

Lab Sample ID: 500-221304-4

Date Collected: 08/25/22 10:01

Matrix: Water

Date Received: 08/26/22 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/31/22 08:26	08/31/22 22:06	1
Arsenic	0.0023		0.0010		mg/L		08/31/22 08:26	08/31/22 22:06	1
Barium	0.088		0.0025		mg/L		08/31/22 08:26	08/31/22 22:06	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:06	1
Boron	2.7		0.50		mg/L		08/31/22 08:26	09/01/22 15:56	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 22:06	1
Calcium	110		0.20		mg/L		08/31/22 08:26	08/31/22 22:06	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 22:06	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:06	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 22:06	1
Lithium	0.018		0.010		mg/L		08/31/22 08:26	08/31/22 22:06	1
Molybdenum	0.021		0.0050		mg/L		08/31/22 08:26	08/31/22 22:06	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 22:06	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 22:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	750		10		mg/L			09/01/22 15:30	1
Chloride	20		4.0		mg/L			08/29/22 13:42	2
Fluoride	0.42		0.10		mg/L			09/02/22 14:25	1
Sulfate	170		100		mg/L			08/29/22 15:32	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Client Sample ID: MW-09
Date Collected: 08/25/22 14:03
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-5
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		08/31/22 08:26	08/31/22 22:16	1
Arsenic	0.0089		0.0010		mg/L		08/31/22 08:26	08/31/22 22:16	1
Barium	0.034		0.0025		mg/L		08/31/22 08:26	08/31/22 22:16	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:16	1
Boron	2.1		0.50		mg/L		08/31/22 08:26	09/01/22 16:00	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 22:16	1
Calcium	38		0.20		mg/L		08/31/22 08:26	08/31/22 22:16	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 22:16	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:16	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 22:16	1
Lithium	<0.010		0.010		mg/L		08/31/22 08:26	08/31/22 22:16	1
Molybdenum	0.065		0.0050		mg/L		08/31/22 08:26	08/31/22 22:16	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 22:16	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 22:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	770		10		mg/L			09/01/22 15:31	1
Chloride	210		20		mg/L			08/29/22 13:42	10
Fluoride	0.58		0.10		mg/L			09/02/22 14:27	1
Sulfate	190		100		mg/L			08/29/22 15:33	20

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Client Sample ID: MW-10

Lab Sample ID: 500-221304-6

Date Collected: 08/25/22 15:32

Matrix: Water

Date Received: 08/26/22 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/31/22 08:26	08/31/22 22:20	1
Arsenic	0.019		0.0010		mg/L		08/31/22 08:26	08/31/22 22:20	1
Barium	0.11		0.0025		mg/L		08/31/22 08:26	08/31/22 22:20	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:20	1
Boron	2.6		0.50		mg/L		08/31/22 08:26	09/01/22 16:03	10
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 22:20	1
Calcium	130		0.20		mg/L		08/31/22 08:26	08/31/22 22:20	1
Chromium	0.0053		0.0050		mg/L		08/31/22 08:26	08/31/22 22:20	1
Cobalt	0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 22:20	1
Lead	0.0077		0.00050		mg/L		08/31/22 08:26	08/31/22 22:20	1
Lithium	0.015		0.010		mg/L		08/31/22 08:26	08/31/22 22:20	1
Molybdenum	0.12		0.0050		mg/L		08/31/22 08:26	08/31/22 22:20	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 22:20	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 22:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10		mg/L			09/01/22 15:33	1
Chloride	140		20		mg/L			08/29/22 14:05	10
Fluoride	0.99		0.10		mg/L			09/02/22 14:30	1
Sulfate	280		100		mg/L			08/29/22 15:33	20

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

Qualifiers

Metals

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

Glossary

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

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

Metals

Prep Batch: 672316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	7470A	
500-221304-2	MW-12	Total/NA	Water	7470A	
500-221304-3	MW-05	Total/NA	Water	7470A	
500-221304-4	MW-06	Total/NA	Water	7470A	
500-221304-5	MW-09	Total/NA	Water	7470A	
500-221304-6	MW-10	Total/NA	Water	7470A	
MB 500-672316/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-672316/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 672467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total Recoverable	Water	3005A	
500-221304-2	MW-12	Total Recoverable	Water	3005A	
500-221304-3	MW-05	Total Recoverable	Water	3005A	
500-221304-4	MW-06	Total Recoverable	Water	3005A	
500-221304-5	MW-09	Total Recoverable	Water	3005A	
500-221304-6	MW-10	Total Recoverable	Water	3005A	
MB 500-672467/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-672467/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 672571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	7470A	672316
500-221304-2	MW-12	Total/NA	Water	7470A	672316
500-221304-3	MW-05	Total/NA	Water	7470A	672316
500-221304-4	MW-06	Total/NA	Water	7470A	672316
500-221304-5	MW-09	Total/NA	Water	7470A	672316
500-221304-6	MW-10	Total/NA	Water	7470A	672316
MB 500-672316/12-A	Method Blank	Total/NA	Water	7470A	672316
LCS 500-672316/13-A	Lab Control Sample	Total/NA	Water	7470A	672316

Analysis Batch: 672787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total Recoverable	Water	6020A	672467
500-221304-2	MW-12	Total Recoverable	Water	6020A	672467
500-221304-3	MW-05	Total Recoverable	Water	6020A	672467
500-221304-4	MW-06	Total Recoverable	Water	6020A	672467
500-221304-5	MW-09	Total Recoverable	Water	6020A	672467
500-221304-6	MW-10	Total Recoverable	Water	6020A	672467
MB 500-672467/1-A	Method Blank	Total Recoverable	Water	6020A	672467
LCS 500-672467/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672467

Analysis Batch: 672872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total Recoverable	Water	6020A	672467
500-221304-2	MW-12	Total Recoverable	Water	6020A	672467
500-221304-3	MW-05	Total Recoverable	Water	6020A	672467
500-221304-4	MW-06	Total Recoverable	Water	6020A	672467
500-221304-5	MW-09	Total Recoverable	Water	6020A	672467
500-221304-6	MW-10	Total Recoverable	Water	6020A	672467
MB 500-672467/1-A	Method Blank	Total Recoverable	Water	6020A	672467

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

Metals (Continued)

Analysis Batch: 672872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-672467/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672467

General Chemistry

Analysis Batch: 671760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	SM 4500 CI- E	
500-221304-2	MW-12	Total/NA	Water	SM 4500 CI- E	
MB 500-671760/51	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-671760/52	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 671776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-221304-2	MW-12	Total/NA	Water	SM 4500 SO4 E	
MB 500-671776/58	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-671776/59	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 672196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-3	MW-05	Total/NA	Water	SM 4500 CI- E	
500-221304-4	MW-06	Total/NA	Water	SM 4500 CI- E	
500-221304-5	MW-09	Total/NA	Water	SM 4500 CI- E	
500-221304-6	MW-10	Total/NA	Water	SM 4500 CI- E	
MB 500-672196/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-672196/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 672207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-3	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-221304-4	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-221304-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-221304-6	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-672207/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-672207/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 672355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	SM 2540C	
500-221304-2	MW-12	Total/NA	Water	SM 2540C	
MB 500-672355/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-672355/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-221304-2 DU	MW-12	Total/NA	Water	SM 2540C	

Analysis Batch: 672840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-3	MW-05	Total/NA	Water	SM 2540C	
500-221304-4	MW-06	Total/NA	Water	SM 2540C	
500-221304-5	MW-09	Total/NA	Water	SM 2540C	
500-221304-6	MW-10	Total/NA	Water	SM 2540C	
MB 500-672840/1	Method Blank	Total/NA	Water	SM 2540C	

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QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

General Chemistry (Continued)

Analysis Batch: 672840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-672840/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-221304-5 DU	MW-09	Total/NA	Water	SM 2540C	

Analysis Batch: 673068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	SM 4500 F C	
500-221304-2	MW-12	Total/NA	Water	SM 4500 F C	
500-221304-3	MW-05	Total/NA	Water	SM 4500 F C	
500-221304-4	MW-06	Total/NA	Water	SM 4500 F C	
500-221304-5	MW-09	Total/NA	Water	SM 4500 F C	
500-221304-6	MW-10	Total/NA	Water	SM 4500 F C	
MB 500-673068/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-673068/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-672467/1-A
Matrix: Water
Analysis Batch: 672787

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672467

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		08/31/22 08:26	08/31/22 20:54	1
Arsenic	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 20:54	1
Barium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 20:54	1
Beryllium	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 20:54	1
Cadmium	<0.00050	^1+	0.00050		mg/L		08/31/22 08:26	08/31/22 20:54	1
Calcium	<0.20		0.20		mg/L		08/31/22 08:26	08/31/22 20:54	1
Chromium	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 20:54	1
Cobalt	<0.0010		0.0010		mg/L		08/31/22 08:26	08/31/22 20:54	1
Lead	<0.00050		0.00050		mg/L		08/31/22 08:26	08/31/22 20:54	1
Lithium	<0.010		0.010		mg/L		08/31/22 08:26	08/31/22 20:54	1
Molybdenum	<0.0050		0.0050		mg/L		08/31/22 08:26	08/31/22 20:54	1
Selenium	<0.0025		0.0025		mg/L		08/31/22 08:26	08/31/22 20:54	1
Thallium	<0.0020		0.0020		mg/L		08/31/22 08:26	08/31/22 20:54	1

Lab Sample ID: MB 500-672467/1-A
Matrix: Water
Analysis Batch: 672872

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672467

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		08/31/22 08:26	09/01/22 14:38	1

Lab Sample ID: LCS 500-672467/2-A
Matrix: Water
Analysis Batch: 672787

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0953		mg/L		95	80 - 120
Barium	2.00	1.99		mg/L		99	80 - 120
Beryllium	0.0500	0.0500		mg/L		100	80 - 120
Cadmium	0.0500	0.0516	^1+	mg/L		103	80 - 120
Calcium	10.0	8.70		mg/L		87	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.497		mg/L		99	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120
Lithium	0.500	0.532		mg/L		106	80 - 120
Molybdenum	1.00	0.979		mg/L		98	80 - 120
Selenium	0.100	0.0940		mg/L		94	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LCS 500-672467/2-A
Matrix: Water
Analysis Batch: 672872

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-672316/12-A
Matrix: Water
Analysis Batch: 672571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672316

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/30/22 10:00	08/31/22 08:25	1

Lab Sample ID: LCS 500-672316/13-A
Matrix: Water
Analysis Batch: 672571

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00177		mg/L		89	80 - 120

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

Lab Sample ID: MB 500-672355/1
Matrix: Water
Analysis Batch: 672355

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			08/30/22 15:00	1

Lab Sample ID: LCS 500-672355/2
Matrix: Water
Analysis Batch: 672355

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	274		mg/L		110	80 - 120

Lab Sample ID: 500-221304-2 DU
Matrix: Water
Analysis Batch: 672355

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1000		1020		mg/L		0.6	5

Lab Sample ID: MB 500-672840/1
Matrix: Water
Analysis Batch: 672840

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			09/01/22 15:15	1

Lab Sample ID: LCS 500-672840/2
Matrix: Water
Analysis Batch: 672840

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	298		mg/L		119	80 - 120

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

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

Lab Sample ID: 500-221304-5 DU
 Matrix: Water
 Analysis Batch: 672840

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	770		792		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-671760/51
 Matrix: Water
 Analysis Batch: 671760

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/25/22 14:38	1

Lab Sample ID: LCS 500-671760/52
 Matrix: Water
 Analysis Batch: 671760

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.7		mg/L		99	85 - 115

Lab Sample ID: MB 500-672196/16
 Matrix: Water
 Analysis Batch: 672196

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/29/22 13:38	1

Lab Sample ID: LCS 500-672196/17
 Matrix: Water
 Analysis Batch: 672196

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.6		mg/L		98	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-673068/31
 Matrix: Water
 Analysis Batch: 673068

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			09/02/22 13:59	1

Lab Sample ID: LCS 500-673068/32
 Matrix: Water
 Analysis Batch: 673068

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	10.8		mg/L		108	90 - 119

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-671776/58
Matrix: Water
Analysis Batch: 671776

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			08/25/22 15:59	1

Lab Sample ID: LCS 500-671776/59
Matrix: Water
Analysis Batch: 671776

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.3		mg/L		107	88 - 123

Lab Sample ID: MB 500-672207/16
Matrix: Water
Analysis Batch: 672207

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			08/29/22 14:52	1

Lab Sample ID: LCS 500-672207/17
Matrix: Water
Analysis Batch: 672207

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	20.9		mg/L		105	88 - 123

Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-221304-1

Login Number: 221304

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1,2.6,1.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

Client Sample ID: MW-11
Date Collected: 08/23/22 15:37
Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 21:56
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 15:39
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 08:57
Total/NA	Analysis	SM 2540C		1	672355	SMO	EET CHI	08/30/22 15:20
Total/NA	Analysis	SM 4500 CI- E		10	671760	LP	EET CHI	08/25/22 14:41
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:11
Total/NA	Analysis	SM 4500 SO4 E		10	671776	LP	EET CHI	08/25/22 16:02

Client Sample ID: MW-12
Date Collected: 08/23/22 16:26
Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 21:59
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 15:43
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 08:59
Total/NA	Analysis	SM 2540C		1	672355	SMO	EET CHI	08/30/22 15:22
Total/NA	Analysis	SM 4500 CI- E		10	671760	LP	EET CHI	08/25/22 14:42
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:20
Total/NA	Analysis	SM 4500 SO4 E		10	671776	LP	EET CHI	08/25/22 16:12

Client Sample ID: MW-05
Date Collected: 08/25/22 09:08
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 22:03
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		20	672872	FXG	EET CHI	09/01/22 15:46
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 09:06
Total/NA	Analysis	SM 2540C		1	672840	SMO	EET CHI	09/01/22 15:29
Total/NA	Analysis	SM 4500 CI- E		2	672196	LP	EET CHI	08/29/22 13:42
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:23
Total/NA	Analysis	SM 4500 SO4 E		20	672207	LP	EET CHI	08/29/22 15:32

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR

Job ID: 500-221304-1

Client Sample ID: MW-06
Date Collected: 08/25/22 10:01
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 22:06
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 15:56
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 09:08
Total/NA	Analysis	SM 2540C		1	672840	SMO	EET CHI	09/01/22 15:30
Total/NA	Analysis	SM 4500 CI- E		2	672196	LP	EET CHI	08/29/22 13:42
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:25
Total/NA	Analysis	SM 4500 SO4 E		20	672207	LP	EET CHI	08/29/22 15:32

Client Sample ID: MW-09
Date Collected: 08/25/22 14:03
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 22:16
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 16:00
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 09:10
Total/NA	Analysis	SM 2540C		1	672840	SMO	EET CHI	09/01/22 15:31
Total/NA	Analysis	SM 4500 CI- E		10	672196	LP	EET CHI	08/29/22 13:42
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:27
Total/NA	Analysis	SM 4500 SO4 E		20	672207	LP	EET CHI	08/29/22 15:33

Client Sample ID: MW-10
Date Collected: 08/25/22 15:32
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 22:20
Total Recoverable	Prep	3005A			672467	BDE	EET CHI	08/31/22 08:26 - 08/31/22 08:56 ¹
Total Recoverable	Analysis	6020A		10	672872	FXG	EET CHI	09/01/22 16:03
Total/NA	Prep	7470A			672316	MJG	EET CHI	08/30/22 10:00 - 08/30/22 12:00 ¹
Total/NA	Analysis	7470A		1	672571	MJG	EET CHI	08/31/22 09:12
Total/NA	Analysis	SM 2540C		1	672840	SMO	EET CHI	09/01/22 15:33
Total/NA	Analysis	SM 4500 CI- E		10	672196	LP	EET CHI	08/29/22 14:05
Total/NA	Analysis	SM 4500 F C		1	673068	EAT	EET CHI	09/02/22 14:30
Total/NA	Analysis	SM 4500 SO4 E		20	672207	LP	EET CHI	08/29/22 15:33

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR

Job ID: 500-221304-1

Laboratory References:

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 500-221304-2
Client Project/Site: Will County CCR (RAD)
Sampling Event: Quarterly GW Monitoring
Revision: 1

For:
Midwest Generation EME LLC
1800 Channahon Road
Joliet, Illinois 60436

Attn: John Niedzwiecki



Authorized for release by:
9/27/2022 12:09:50 PM

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

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

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

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Case Narrative

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Job ID: 500-221304-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-221304-2

Comments

No additional comments.

Receipt

The samples were received on 8/24/2022 4:30 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 1.1° C, 1.1° C and 2.6° C.

RAD

Methods 903.0, RA-06-RC: Radium-226 batch 580319

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-11 (500-221304-1), MW-12 (500-221304-2), MW-05 (500-221304-3), MW-06 (500-221304-4), MW-09 (500-221304-5), MW-10 (500-221304-6), (LCS 160-580319/2-A), (MB 160-580319/1-A), (500-221301-E-1-A) and (500-221301-C-1-A DU)

Methods 904.0, RA-06-RC: Radium-228 batch 580328

The detection goal was not met for the following sample(s). The sample was prepped at a reduced volume due to the presence of matrix interferences: MW-11 (500-221304-1). Analytical results are reported with the detection limit achieved.

Methods 904.0, RA-06-RC: Radium-228 batch 580328

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-11 (500-221304-1), MW-12 (500-221304-2), MW-05 (500-221304-3), MW-06 (500-221304-4), MW-09 (500-221304-5), MW-10 (500-221304-6), (LCS 160-580328/2-A), (MB 160-580328/1-A), (500-221301-E-1-B) and (500-221301-C-1-B DU)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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



Sample Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221304-1	MW-11	Water	08/23/22 15:37	08/24/22 16:30
500-221304-2	MW-12	Water	08/23/22 16:26	08/24/22 16:30
500-221304-3	MW-05	Water	08/25/22 09:08	08/26/22 09:40
500-221304-4	MW-06	Water	08/25/22 10:01	08/26/22 09:40
500-221304-5	MW-09	Water	08/25/22 14:03	08/26/22 09:40
500-221304-6	MW-10	Water	08/25/22 15:32	08/26/22 09:40

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Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-11

Lab Sample ID: 500-221304-1

Date Collected: 08/23/22 15:37

Matrix: Water

Date Received: 08/24/22 16:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.475		0.250	0.254	1.00	0.327	pCi/L	09/01/22 09:35	09/23/22 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					09/01/22 09:35	09/23/22 09:07	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.54	G	0.930	0.940	1.00	1.35	pCi/L	09/01/22 10:07	09/13/22 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.1		40 - 110					09/01/22 10:07	09/13/22 13:46	1
Y Carrier	81.9		40 - 110					09/01/22 10:07	09/13/22 13:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.02		0.963	0.974	5.00	1.35	pCi/L		09/27/22 11:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-12

Lab Sample ID: 500-221304-2

Date Collected: 08/23/22 16:26

Matrix: Water

Date Received: 08/24/22 16:30

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124		0.0716	0.0724	1.00	0.0882	pCi/L	09/01/22 09:35	09/23/22 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					09/01/22 09:35	09/23/22 09:07	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	0.585		0.328	0.332	1.00	0.466	pCi/L	09/01/22 10:07	09/13/22 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		40 - 110					09/01/22 10:07	09/13/22 13:46	1
Y Carrier	81.9		40 - 110					09/01/22 10:07	09/13/22 13:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.709		0.336	0.340	5.00	0.466	pCi/L		09/27/22 11:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-05

Lab Sample ID: 500-221304-3

Date Collected: 08/25/22 09:08

Matrix: Water

Date Received: 08/26/22 09:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0843	U	0.0663	0.0668	1.00	0.0950	pCi/L	09/01/22 09:35	09/23/22 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					09/01/22 09:35	09/23/22 09:07	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	0.230	U	0.339	0.339	1.00	0.570	pCi/L	09/01/22 10:07	09/13/22 13:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		40 - 110					09/01/22 10:07	09/13/22 13:46	1
Y Carrier	81.1		40 - 110					09/01/22 10:07	09/13/22 13:46	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.314	U	0.345	0.346	5.00	0.570	pCi/L		09/27/22 11:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-06

Lab Sample ID: 500-221304-4

Date Collected: 08/25/22 10:01

Matrix: Water

Date Received: 08/26/22 09:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.132		0.0769	0.0778	1.00	0.0984	pCi/L	09/01/22 09:35	09/23/22 09:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					09/01/22 09:35	09/23/22 09:07	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	0.256	U	0.313	0.314	1.00	0.519	pCi/L	09/01/22 10:07	09/13/22 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		40 - 110					09/01/22 10:07	09/13/22 13:48	1
Y Carrier	83.7		40 - 110					09/01/22 10:07	09/13/22 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	0.388	U	0.322	0.323	5.00	0.519	pCi/L		09/27/22 11:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-09

Lab Sample ID: 500-221304-5

Date Collected: 08/25/22 14:03

Matrix: Water

Date Received: 08/26/22 09:40

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0534	U	0.0735	0.0737	1.00	0.124	pCi/L	09/01/22 09:35	09/23/22 09:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					09/01/22 09:35	09/23/22 09:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.16		0.501	0.513	1.00	0.661	pCi/L	09/01/22 10:07	09/13/22 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.1		40 - 110					09/01/22 10:07	09/13/22 13:48	1
Y Carrier	83.7		40 - 110					09/01/22 10:07	09/13/22 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	1.22		0.506	0.518	5.00	0.661	pCi/L		09/27/22 11:50	1

Client Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-10
Date Collected: 08/25/22 15:32
Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-6
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	0.416		0.171	0.175	1.00	0.202	pCi/L	09/01/22 09:35	09/23/22 09:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					09/01/22 09:35	09/23/22 09:08	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.789		0.480	0.486	1.00	0.694	pCi/L	09/01/22 10:07	09/13/22 13:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.4		40 - 110					09/01/22 10:07	09/13/22 13:48	1
Y Carrier	81.5		40 - 110					09/01/22 10:07	09/13/22 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	1.20		0.510	0.517	5.00	0.694	pCi/L		09/27/22 11:50	1

Definitions/Glossary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Rad

Prep Batch: 580319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	PrecSep-21	
500-221304-2	MW-12	Total/NA	Water	PrecSep-21	
500-221304-3	MW-05	Total/NA	Water	PrecSep-21	
500-221304-4	MW-06	Total/NA	Water	PrecSep-21	
500-221304-5	MW-09	Total/NA	Water	PrecSep-21	
500-221304-6	MW-10	Total/NA	Water	PrecSep-21	
MB 160-580319/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-580319/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 580328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221304-1	MW-11	Total/NA	Water	PrecSep_0	
500-221304-2	MW-12	Total/NA	Water	PrecSep_0	
500-221304-3	MW-05	Total/NA	Water	PrecSep_0	
500-221304-4	MW-06	Total/NA	Water	PrecSep_0	
500-221304-5	MW-09	Total/NA	Water	PrecSep_0	
500-221304-6	MW-10	Total/NA	Water	PrecSep_0	
MB 160-580328/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-580328/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-580319/1-A
Matrix: Water
Analysis Batch: 583225

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580319

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.006435	U	0.0472	0.0472	1.00	0.0959	pCi/L	09/01/22 09:35	09/23/22 07:11	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110				09/01/22 09:35		09/23/22 07:11	1

Lab Sample ID: LCS 160-580319/2-A
Matrix: Water
Analysis Batch: 583225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580319

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	9.457		0.988	1.00	0.0927	pCi/L	83	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	104		40 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-580328/1-A
Matrix: Water
Analysis Batch: 581987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580328

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3923	U	0.300	0.303	1.00	0.462	pCi/L	09/01/22 10:07	09/13/22 13:43	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	Dil Fac
Ba Carrier	96.8		40 - 110				09/01/22 10:07		09/13/22 13:43	1
Y Carrier	85.6		40 - 110				09/01/22 10:07		09/13/22 13:43	1

Lab Sample ID: LCS 160-580328/2-A
Matrix: Water
Analysis Batch: 581987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580328

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.28	9.034		1.19	1.00	0.404	pCi/L	109	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	104		40 - 110						
Y Carrier	82.2		40 - 110						

Eurofins TestAmerica, Chicago

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

Chain of Custody Record



Environment
 America

Client Information	Sampler: <u>IAN S. HOWISON</u>	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-221304 COC 11
Client Contact: Mitchel Dolan	Phone: <u>630-290-6850</u>	E-Mail: Diana Mockler@Eurofinset.com	State of Origin:

Page 1 of 1
 Job #: 500-221304

Company: KPRG and Associates, Inc.	PWSID:
Address: 14665 West Lisbon Road Suite 1A	Due Date Requested:
City: Brookfield	TAT Requested (days):
State/Zip: WI 53005	Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No
Phone: 262-781-0475	PO #: 4502041043
Email: mitcheld@kprginc.com	WO #:
Project Name: Will County CCR 2S/3S	Project #: 50011609
Site: Illinois	SSOW#:

Analysis Requested		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0, Radium Combined	6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury	2540C TDS, 4500FC - Fluoride	SM4500ClE Chloride, SM4500SO4E - Sulfate	Total Number of containers
Sample ID	Sample Name							

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, Radium Combined	6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury	2540C TDS, 4500FC - Fluoride	SM4500ClE Chloride, SM4500SO4E - Sulfate	Total Number of containers
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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, Radium Combined	6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury	2540C TDS, 4500FC - Fluoride	SM4500ClE Chloride, SM4500SO4E - Sulfate	Total Number of containers
<u>MW-11</u>	<u>8-23-22</u>	<u>15:37</u>		<u>W</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>5</u>
<u>MW-12</u>	<u>8-23-22</u>	<u>16:26</u>		<u>W</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>5</u>

Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0, Radium Combined	6010C - Lithium, 6020A - Metals (13 elements), 7470A - Mercury	2540C TDS, 4500FC - Fluoride	SM4500ClE Chloride, SM4500SO4E - Sulfate	Total Number of containers
<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>5</u>
<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>5</u>

Special Instructions/Note:

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested I, II, III, IV Other (specify)

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

Empty Kit Relinquished by	Date	Time	Method of Shipment:
<u>[Signature]</u>	<u>8-24-22</u>	<u>16:30</u>	<u>KPRG</u>
<u>[Signature]</u>	<u>8/24/22</u>	<u>1630</u>	<u>[Signature]</u>

Custody Seals Intact: Yes No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 2.4 - 1.1

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

Chain of Custody Record



Environment Testing
 America



Client Information (Sub Contract Lab)		Lab PIV: Mockler, Diana J	Camera Tracking No(s): 500-164680.1	
Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofins.com	Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-221304-2	
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma L - EDTA Z - other (specify)		
Due Date Requested: 9/14/2022		Analysis Requested		
TAT Requested (days):		Total Number of Containers		
PO #:		903.0/PreSep_21 Standard Target List		
WO #:		904.0/PreSep_0 Standard Target List		
Project #: 50011609		Perform MS/MSD (Yes or No)		
SSOW#:		Field Filtered Sample (Yes or No)		
Site: NRG Midwest Generation Will County		Matrix (Water, Seawater, Urine, Blood, Biotissue, Ash)		
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:		
MW-05 (500-221304-3)	8/25/22	09:08 Central	Water	3 Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-06 (500-221304-4)	8/25/22	10:01 Central	Water	3 Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-09 (500-221304-5)	8/25/22	14:03 Central	Water	3 Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-10 (500-221304-6)	8/25/22	15:32 Central	Water	3 Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)				
Primary Deliverable Rank: 2				
Date: _____ Time: _____				
Relinquished by: _____ Date/Time: _____				
Relinquished by: _____ Date/Time: _____				
Relinquished by: _____ Date/Time: _____				
Custody Seals Intact: _____ Custody Seal No.:				
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>				
<p>Received by: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p>				
<p>Method of Shipment: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p>				



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-221304-2

Login Number: 221304

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1,2.6,1.1
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: Midwest Generation EME LLC

Job Number: 500-221304-2

Login Number: 221304

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 08/26/22 04:05 PM

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



Login Sample Receipt Checklist

Client: Midwest Generation EME LLC

Job Number: 500-221304-2

Login Number: 221304

List Number: 3

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 08/29/22 10:46 AM

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



Lab Chronicle

Client: Midwest Generation EME LLC
Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-11

Date Collected: 08/23/22 15:37

Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:07
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:46
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Client Sample ID: MW-12

Date Collected: 08/23/22 16:26

Date Received: 08/24/22 16:30

Lab Sample ID: 500-221304-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:07
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:46
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Client Sample ID: MW-05

Date Collected: 08/25/22 09:08

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:07
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:46
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Client Sample ID: MW-06

Date Collected: 08/25/22 10:01

Date Received: 08/26/22 09:40

Lab Sample ID: 500-221304-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:07
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:48
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Lab Chronicle

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

Client Sample ID: MW-09

Lab Sample ID: 500-221304-5

Date Collected: 08/25/22 14:03

Matrix: Water

Date Received: 08/26/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:08
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:48
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Client Sample ID: MW-10

Lab Sample ID: 500-221304-6

Date Collected: 08/25/22 15:32

Matrix: Water

Date Received: 08/26/22 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			580319	BMP	EET SL	09/01/22 09:35
Total/NA	Analysis	903.0		1	583225	FLC	EET SL	09/23/22 09:08
Total/NA	Prep	PrecSep_0			580328	BMP	EET SL	09/01/22 10:07
Total/NA	Analysis	904.0		1	581988	EMH	EET SL	09/13/22 13:48
Total/NA	Analysis	Ra226_Ra228		1	583734	SCB	EET SL	09/27/22 11:50

Laboratory References:

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

Tracer/Carrier Summary

Client: Midwest Generation EME LLC
 Project/Site: Will County CCR (RAD)

Job ID: 500-221304-2

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)	
500-221304-1	MW-11	69.1	
500-221304-2	MW-12	99.0	
500-221304-3	MW-05	97.3	
500-221304-4	MW-06	96.0	
500-221304-5	MW-09	70.1	
500-221304-6	MW-10	85.4	
LCS 160-580319/2-A	Lab Control Sample	104	
MB 160-580319/1-A	Method Blank	96.8	
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)
500-221304-1	MW-11	69.1	81.9
500-221304-2	MW-12	99.0	81.9
500-221304-3	MW-05	97.3	81.1
500-221304-4	MW-06	96.0	83.7
500-221304-5	MW-09	70.1	83.7
500-221304-6	MW-10	85.4	81.5
LCS 160-580328/2-A	Lab Control Sample	104	82.2
MB 160-580328/1-A	Method Blank	96.8	85.6
Tracer/Carrier Legend			
Ba = Ba Carrier			
Y = Y Carrier			

ANALYTICAL REPORT

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

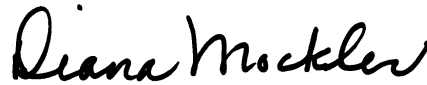
Laboratory Job ID: 500-223050-1

Client Project/Site: Will County CCR - MW-10 Resample
(As/Pb)

For:

KPRG and Associates, Inc.
414 Plaza Drive Suite 106
Westmont, Illinois 60559

Attn: Mitchel Dolan



Authorized for release by:
10/5/2022 3:02:01 PM

Diana Mockler, Project Manager I
(219)252-7570

Diana.Mockler@et.eurofinsus.com

LINKS

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results through



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

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



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Job ID: 500-223050-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-223050-1**

Comments

No additional comments.

Receipt

The sample was received on 9/29/2022 4:30 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.0° C.

Metals

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

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Detection Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Client Sample ID: MW-10 CCR

Lab Sample ID: 500-223050-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0088		0.0010		mg/L	1		6020A	Total Recoverable
Lead	0.00093		0.00050		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago



Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-223050-1	MW-10 CCR	Water	09/28/22 17:52	09/29/22 16:54

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Client Sample ID: MW-10 CCR

Lab Sample ID: 500-223050-1

Date Collected: 09/28/22 17:52

Matrix: Water

Date Received: 09/29/22 16:54

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0088		0.0010		mg/L		10/04/22 09:14	10/04/22 22:41	1
Lead	0.00093		0.00050		mg/L		10/04/22 09:14	10/04/22 22:41	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Metals

Prep Batch: 677745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-223050-1	MW-10 CCR	Total Recoverable	Water	3005A	
MB 500-677745/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-677745/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 678011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-223050-1	MW-10 CCR	Total Recoverable	Water	6020A	677745
MB 500-677745/1-A	Method Blank	Total Recoverable	Water	6020A	677745
LCS 500-677745/2-A	Lab Control Sample	Total Recoverable	Water	6020A	677745

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-677745/1-A
Matrix: Water
Analysis Batch: 678011

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 677745

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0010		0.0010		mg/L		10/04/22 09:14	10/04/22 21:35	1
Lead	<0.00050		0.00050		mg/L		10/04/22 09:14	10/04/22 21:35	1

Lab Sample ID: LCS 500-677745/2-A
Matrix: Water
Analysis Batch: 678011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 677745

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0956		mg/L		96	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Client Sample ID: MW-10 CCR

Lab Sample ID: 500-223050-1

Date Collected: 09/28/22 17:52

Matrix: Water

Date Received: 09/29/22 16:54

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total Recoverable	Prep	3005A			677745	BDE	EET CHI	10/04/22 09:14 - 10/04/22 09:44 ¹
Total Recoverable	Analysis	6020A		1	678011	FXG	EET CHI	10/04/22 22:41

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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



Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR - MW-10 Resample (As/Pb)

Job ID: 500-223050-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-223050-1

Login Number: 223050

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



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

Attn: Mitchel Dolan
KPRG and Associates, Inc.
414 Plaza Drive Suite 106
Westmont, Illinois 60559
Generated 12/20/2022 8:28:23 AM

JOB DESCRIPTION

Will County CCR

JOB NUMBER

500-225637-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization



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



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Case Narrative

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

Job ID: 500-225637-1

Job ID: 500-225637-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225637-1

Comments

No additional comments.

Receipt

The samples were received on 11/17/2022 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.4° C, 0.6° C, 1.0° C, 1.4° C and 1.8° C.

Metals

Method 6020A: The low level continuing calibration verification (CCVL) associated with batch 500-689114 recovered above the upper control limit for Beryllium. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

General Chemistry

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

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Detection Summary

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

Job ID: 500-225637-1

Client Sample ID: MW-05

Lab Sample ID: 500-225637-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.032		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.099		0.0025		mg/L	1		6020A	Total Recoverable
Boron	8.9		1.0		mg/L	20		6020A	Total Recoverable
Cadmium	0.0040		0.00050		mg/L	1		6020A	Total Recoverable
Calcium	150		0.20		mg/L	1		6020A	Total Recoverable
Chromium	0.0083		0.0050		mg/L	1		6020A	Total Recoverable
Lithium	0.020		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.10		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.089		0.0025		mg/L	1		6020A	Total Recoverable
Fluoride	0.72		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	930		10		mg/L	1		SM 2540C	Total/NA
Chloride	9.8		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	310		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-06

Lab Sample ID: 500-225637-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.083		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.2		0.50		mg/L	10		6020A	Total Recoverable
Calcium	110		0.20		mg/L	1		6020A	Total Recoverable
Lithium	0.016		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.021		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.47		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	600		10		mg/L	1		SM 2540C	Total/NA
Chloride	19		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	160		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 500-225637-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0094		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.036		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.3		0.25		mg/L	5		6020A	Total Recoverable
Calcium	37		0.20		mg/L	1		6020A	Total Recoverable
Lead	0.00066		0.00050		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

Job ID: 500-225637-1

Client Sample ID: MW-09 (Continued)

Lab Sample ID: 500-225637-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.067		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.79		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	690		10		mg/L	1		SM 2540C	Total/NA
Chloride	210		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	160		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 500-225637-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.10		0.0025		mg/L	1		6020A	Total Recoverable
Boron	4.4		0.50		mg/L	10		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Lead	0.0020		0.00050		mg/L	1		6020A	Total Recoverable
Lithium	0.018		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.097		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.94		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	910		10		mg/L	1		SM 2540C	Total/NA
Chloride	160		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	220		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 500-225637-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.013		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.14		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.8		0.50		mg/L	10		6020A	Total Recoverable
Calcium	120		0.20		mg/L	1		6020A	Total Recoverable
Cobalt	0.0015		0.0010		mg/L	1		6020A	Total Recoverable
Lead	0.0014		0.00050		mg/L	1		6020A	Total Recoverable
Lithium	0.010		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.052		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.71		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	700		10		mg/L	1		SM 2540C	Total/NA
Chloride	130		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	66		50		mg/L	10		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

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

Job ID: 500-225637-1

Client Sample ID: MW-12

Lab Sample ID: 500-225637-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.14		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.3		0.25		mg/L	5		6020A	Total Recoverable
Calcium	160		0.20		mg/L	1		6020A	Total Recoverable
Lithium	0.015		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.029		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.97		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Total/NA
Chloride	180		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	180		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-225637-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.14		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.2		0.25		mg/L	5		6020A	Total Recoverable
Calcium	160		0.20		mg/L	1		6020A	Total Recoverable
Lithium	0.015		0.010		mg/L	1		6020A	Total Recoverable
Molybdenum	0.029		0.0050		mg/L	1		6020A	Total Recoverable
Fluoride	0.61		0.20		mg/L	1		300.0	Total/NA
Total Dissolved Solids	990		10		mg/L	1		SM 2540C	Total/NA
Chloride	180		20		mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	190		50		mg/L	10		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

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

Job ID: 500-225637-1

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

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

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

Job ID: 500-225637-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225637-1	MW-05	Water	11/15/22 14:50	11/17/22 15:20
500-225637-2	MW-06	Water	11/16/22 09:38	11/17/22 15:20
500-225637-3	MW-09	Water	11/16/22 14:39	11/17/22 15:20
500-225637-4	MW-10	Water	11/16/22 12:02	11/17/22 15:20
500-225637-5	MW-11	Water	11/16/22 13:09	11/17/22 15:20
500-225637-6	MW-12	Water	11/16/22 10:23	11/17/22 15:20
500-225637-7	2S/3S Duplicate	Water	11/16/22 00:00	11/17/22 15:20

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Client Sample Results

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

Job ID: 500-225637-1

Client Sample ID: MW-05

Lab Sample ID: 500-225637-1

Date Collected: 11/15/22 14:50

Matrix: Water

Date Received: 11/17/22 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 20:54	1
Arsenic	0.032		0.0010		mg/L		12/06/22 08:47	12/06/22 20:54	1
Barium	0.099		0.0025		mg/L		12/06/22 08:47	12/06/22 20:54	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 20:54	1
Boron	8.9		1.0		mg/L		12/06/22 08:47	12/10/22 18:36	20
Cadmium	0.0040		0.00050		mg/L		12/06/22 08:47	12/06/22 20:54	1
Calcium	150		0.20		mg/L		12/06/22 08:47	12/06/22 20:54	1
Chromium	0.0083		0.0050		mg/L		12/06/22 08:47	12/06/22 20:54	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 20:54	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 20:54	1
Lithium	0.020		0.010		mg/L		12/06/22 08:47	12/09/22 21:25	1
Molybdenum	0.10		0.0050		mg/L		12/06/22 08:47	12/06/22 20:54	1
Selenium	0.089		0.0025		mg/L		12/06/22 08:47	12/06/22 20:54	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 20:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.72		0.20		mg/L			12/09/22 20:06	1
Total Dissolved Solids (SM 2540C)	930		10		mg/L			11/18/22 04:16	1
Chloride (SM 4500 Cl- E)	9.8		2.0		mg/L			12/06/22 09:50	1
Sulfate (SM 4500 SO4 E)	310		50		mg/L			11/29/22 11:22	10

Client Sample Results

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

Job ID: 500-225637-1

Client Sample ID: MW-06

Lab Sample ID: 500-225637-2

Date Collected: 11/16/22 09:38

Matrix: Water

Date Received: 11/17/22 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 21:04	1
Arsenic	0.0017		0.0010		mg/L		12/06/22 08:47	12/06/22 21:04	1
Barium	0.083		0.0025		mg/L		12/06/22 08:47	12/06/22 21:04	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:04	1
Boron	3.2		0.50		mg/L		12/06/22 08:47	12/10/22 18:40	10
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:04	1
Calcium	110		0.20		mg/L		12/06/22 08:47	12/06/22 21:04	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:04	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:04	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:04	1
Lithium	0.016		0.010		mg/L		12/06/22 08:47	12/09/22 21:29	1
Molybdenum	0.021		0.0050		mg/L		12/06/22 08:47	12/06/22 21:04	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:04	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.47		0.20		mg/L			12/09/22 20:19	1
Total Dissolved Solids (SM 2540C)	600		10		mg/L			11/22/22 02:30	1
Chloride (SM 4500 Cl- E)	19		2.0		mg/L			12/06/22 09:50	1
Sulfate (SM 4500 SO4 E)	160		50		mg/L			11/29/22 11:22	10

Client Sample Results

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

Job ID: 500-225637-1

Client Sample ID: MW-09

Lab Sample ID: 500-225637-3

Date Collected: 11/16/22 14:39

Matrix: Water

Date Received: 11/17/22 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 21:08	1
Arsenic	0.0094		0.0010		mg/L		12/06/22 08:47	12/06/22 21:08	1
Barium	0.036		0.0025		mg/L		12/06/22 08:47	12/06/22 21:08	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:08	1
Boron	2.3		0.25		mg/L		12/06/22 08:47	12/10/22 18:43	5
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:08	1
Calcium	37		0.20		mg/L		12/06/22 08:47	12/06/22 21:08	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:08	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:08	1
Lead	0.00066		0.00050		mg/L		12/06/22 08:47	12/06/22 21:08	1
Lithium	<0.010		0.010		mg/L		12/06/22 08:47	12/09/22 21:32	1
Molybdenum	0.067		0.0050		mg/L		12/06/22 08:47	12/06/22 21:08	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:08	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.79		0.20		mg/L			12/09/22 20:31	1
Total Dissolved Solids (SM 2540C)	690		10		mg/L			11/22/22 02:37	1
Chloride (SM 4500 Cl- E)	210		20		mg/L			12/06/22 09:50	10
Sulfate (SM 4500 SO4 E)	160		50		mg/L			11/29/22 11:23	10

Client Sample Results

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

Job ID: 500-225637-1

Client Sample ID: MW-10

Lab Sample ID: 500-225637-4

Date Collected: 11/16/22 12:02

Matrix: Water

Date Received: 11/17/22 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 21:12	1
Arsenic	0.015		0.0010		mg/L		12/06/22 08:47	12/06/22 21:12	1
Barium	0.10		0.0025		mg/L		12/06/22 08:47	12/06/22 21:12	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:12	1
Boron	4.4		0.50		mg/L		12/06/22 08:47	12/10/22 18:47	10
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:12	1
Calcium	130		0.20		mg/L		12/06/22 08:47	12/06/22 21:12	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:12	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:12	1
Lead	0.0020		0.00050		mg/L		12/06/22 08:47	12/06/22 21:12	1
Lithium	0.018		0.010		mg/L		12/06/22 08:47	12/09/22 21:36	1
Molybdenum	0.097		0.0050		mg/L		12/06/22 08:47	12/06/22 21:12	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:12	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.94		0.20		mg/L			12/09/22 20:44	1
Total Dissolved Solids (SM 2540C)	910		10		mg/L			11/22/22 02:43	1
Chloride (SM 4500 Cl- E)	160		20		mg/L			12/06/22 09:50	10
Sulfate (SM 4500 SO4 E)	220		50		mg/L			11/29/22 11:24	10

Client Sample Results

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

Job ID: 500-225637-1

Client Sample ID: MW-11

Lab Sample ID: 500-225637-5

Date Collected: 11/16/22 13:09

Matrix: Water

Date Received: 11/17/22 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 21:15	1
Arsenic	0.013		0.0010		mg/L		12/06/22 08:47	12/06/22 21:15	1
Barium	0.14		0.0025		mg/L		12/06/22 08:47	12/06/22 21:15	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:15	1
Boron	3.8		0.50		mg/L		12/06/22 08:47	12/10/22 18:50	10
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:15	1
Calcium	120		0.20		mg/L		12/06/22 08:47	12/06/22 21:15	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:15	1
Cobalt	0.0015		0.0010		mg/L		12/06/22 08:47	12/06/22 21:15	1
Lead	0.0014		0.00050		mg/L		12/06/22 08:47	12/06/22 21:15	1
Lithium	0.010		0.010		mg/L		12/06/22 08:47	12/09/22 21:39	1
Molybdenum	0.052		0.0050		mg/L		12/06/22 08:47	12/06/22 21:15	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:15	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.71		0.20		mg/L			12/09/22 20:56	1
Total Dissolved Solids (SM 2540C)	700		10		mg/L			11/22/22 02:45	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			12/06/22 09:51	10
Sulfate (SM 4500 SO4 E)	66		50		mg/L			11/29/22 11:24	10

Client Sample Results

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

Job ID: 500-225637-1

Client Sample ID: MW-12

Lab Sample ID: 500-225637-6

Date Collected: 11/16/22 10:23

Matrix: Water

Date Received: 11/17/22 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 21:19	1
Arsenic	0.0017		0.0010		mg/L		12/06/22 08:47	12/06/22 21:19	1
Barium	0.14		0.0025		mg/L		12/06/22 08:47	12/06/22 21:19	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:19	1
Boron	2.3		0.25		mg/L		12/06/22 08:47	12/10/22 18:54	5
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:19	1
Calcium	160		0.20		mg/L		12/06/22 08:47	12/06/22 21:19	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:19	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:19	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:19	1
Lithium	0.015		0.010		mg/L		12/06/22 08:47	12/09/22 21:43	1
Molybdenum	0.029		0.0050		mg/L		12/06/22 08:47	12/06/22 21:19	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:19	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.97		0.20		mg/L			12/14/22 19:16	1
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			11/22/22 02:48	1
Chloride (SM 4500 Cl- E)	180		20		mg/L			12/06/22 09:51	10
Sulfate (SM 4500 SO4 E)	180		50		mg/L			11/29/22 11:24	10

Client Sample Results

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

Job ID: 500-225637-1

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-225637-7

Date Collected: 11/16/22 00:00

Matrix: Water

Date Received: 11/17/22 15:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 21:22	1
Arsenic	0.0017		0.0010		mg/L		12/06/22 08:47	12/06/22 21:22	1
Barium	0.14		0.0025		mg/L		12/06/22 08:47	12/06/22 21:22	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 21:22	1
Boron	2.2		0.25		mg/L		12/06/22 08:47	12/10/22 18:57	5
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:22	1
Calcium	160		0.20		mg/L		12/06/22 08:47	12/06/22 21:22	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 21:22	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 21:22	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 21:22	1
Lithium	0.015		0.010		mg/L		12/06/22 08:47	12/09/22 21:47	1
Molybdenum	0.029		0.0050		mg/L		12/06/22 08:47	12/06/22 21:22	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 21:22	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 21:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.61		0.20		mg/L			12/09/22 22:00	1
Total Dissolved Solids (SM 2540C)	990		10		mg/L			11/22/22 02:50	1
Chloride (SM 4500 Cl- E)	180		20		mg/L			12/06/22 10:08	10
Sulfate (SM 4500 SO4 E)	190		50		mg/L			11/29/22 12:01	10

Definitions/Glossary

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

Job ID: 500-225637-1

Qualifiers

Metals

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

General Chemistry

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

Glossary

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

QC Association Summary

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

Job ID: 500-225637-1

Metals

Prep Batch: 687510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	7470A	
500-225637-2	MW-06	Total/NA	Water	7470A	
500-225637-3	MW-09	Total/NA	Water	7470A	
500-225637-4	MW-10	Total/NA	Water	7470A	
500-225637-5	MW-11	Total/NA	Water	7470A	
500-225637-6	MW-12	Total/NA	Water	7470A	
500-225637-7	2S/3S Duplicate	Total/NA	Water	7470A	
MB 500-687510/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-687510/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-225637-1 MS	MW-05	Total/NA	Water	7470A	
500-225637-1 MSD	MW-05	Total/NA	Water	7470A	
500-225637-1 DU	MW-05	Total/NA	Water	7470A	

Analysis Batch: 687783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	7470A	687510
500-225637-2	MW-06	Total/NA	Water	7470A	687510
500-225637-3	MW-09	Total/NA	Water	7470A	687510
500-225637-4	MW-10	Total/NA	Water	7470A	687510
500-225637-5	MW-11	Total/NA	Water	7470A	687510
500-225637-6	MW-12	Total/NA	Water	7470A	687510
500-225637-7	2S/3S Duplicate	Total/NA	Water	7470A	687510
MB 500-687510/12-A	Method Blank	Total/NA	Water	7470A	687510
LCS 500-687510/13-A	Lab Control Sample	Total/NA	Water	7470A	687510
500-225637-1 MS	MW-05	Total/NA	Water	7470A	687510
500-225637-1 MSD	MW-05	Total/NA	Water	7470A	687510
500-225637-1 DU	MW-05	Total/NA	Water	7470A	687510

Prep Batch: 688396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total Recoverable	Water	3005A	
500-225637-2	MW-06	Total Recoverable	Water	3005A	
500-225637-3	MW-09	Total Recoverable	Water	3005A	
500-225637-4	MW-10	Total Recoverable	Water	3005A	
500-225637-5	MW-11	Total Recoverable	Water	3005A	
500-225637-6	MW-12	Total Recoverable	Water	3005A	
500-225637-7	2S/3S Duplicate	Total Recoverable	Water	3005A	
MB 500-688396/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-688396/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 689114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total Recoverable	Water	6020A	688396
500-225637-2	MW-06	Total Recoverable	Water	6020A	688396
500-225637-3	MW-09	Total Recoverable	Water	6020A	688396
500-225637-4	MW-10	Total Recoverable	Water	6020A	688396
500-225637-5	MW-11	Total Recoverable	Water	6020A	688396
500-225637-6	MW-12	Total Recoverable	Water	6020A	688396
500-225637-7	2S/3S Duplicate	Total Recoverable	Water	6020A	688396
MB 500-688396/1-A	Method Blank	Total Recoverable	Water	6020A	688396
LCS 500-688396/2-A	Lab Control Sample	Total Recoverable	Water	6020A	688396

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QC Association Summary

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

Job ID: 500-225637-1

Metals

Analysis Batch: 689195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total Recoverable	Water	6020A	688396
500-225637-2	MW-06	Total Recoverable	Water	6020A	688396
500-225637-3	MW-09	Total Recoverable	Water	6020A	688396
500-225637-4	MW-10	Total Recoverable	Water	6020A	688396
500-225637-5	MW-11	Total Recoverable	Water	6020A	688396
500-225637-6	MW-12	Total Recoverable	Water	6020A	688396
500-225637-7	2S/3S Duplicate	Total Recoverable	Water	6020A	688396
MB 500-688396/1-A	Method Blank	Total Recoverable	Water	6020A	688396
LCS 500-688396/2-A	Lab Control Sample	Total Recoverable	Water	6020A	688396

Analysis Batch: 689345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total Recoverable	Water	6020A	688396
500-225637-2	MW-06	Total Recoverable	Water	6020A	688396
500-225637-3	MW-09	Total Recoverable	Water	6020A	688396
500-225637-4	MW-10	Total Recoverable	Water	6020A	688396
500-225637-5	MW-11	Total Recoverable	Water	6020A	688396
500-225637-6	MW-12	Total Recoverable	Water	6020A	688396
500-225637-7	2S/3S Duplicate	Total Recoverable	Water	6020A	688396
MB 500-688396/1-A	Method Blank	Total Recoverable	Water	6020A	688396
LCS 500-688396/2-A	Lab Control Sample	Total Recoverable	Water	6020A	688396

General Chemistry

Analysis Batch: 685754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	SM 2540C	
MB 500-685754/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-685754/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 686397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-2	MW-06	Total/NA	Water	SM 2540C	
500-225637-3	MW-09	Total/NA	Water	SM 2540C	
500-225637-4	MW-10	Total/NA	Water	SM 2540C	
500-225637-5	MW-11	Total/NA	Water	SM 2540C	
500-225637-6	MW-12	Total/NA	Water	SM 2540C	
500-225637-7	2S/3S Duplicate	Total/NA	Water	SM 2540C	
MB 500-686397/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-686397/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-225637-2 MS	MW-06	Total/NA	Water	SM 2540C	
500-225637-2 DU	MW-06	Total/NA	Water	SM 2540C	
500-225637-3 DU	MW-09	Total/NA	Water	SM 2540C	

Analysis Batch: 687313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-225637-2	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-225637-3	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-225637-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-225637-5	MW-11	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

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

Job ID: 500-225637-1

General Chemistry (Continued)

Analysis Batch: 687313 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-6	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-225637-7	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-687313/181	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-687313/217	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-687313/182	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-687313/218	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-225637-7 MS	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-225637-7 MSD	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 688458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	SM 4500 Cl- E	
500-225637-2	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-225637-3	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-225637-4	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-225637-5	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-225637-6	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-225637-7	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-688458/48	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-688458/49	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 689188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	300.0	
500-225637-2	MW-06	Total/NA	Water	300.0	
500-225637-3	MW-09	Total/NA	Water	300.0	
500-225637-4	MW-10	Total/NA	Water	300.0	
500-225637-5	MW-11	Total/NA	Water	300.0	
500-225637-7	2S/3S Duplicate	Total/NA	Water	300.0	
MB 500-689188/33	Method Blank	Total/NA	Water	300.0	
LCS 500-689188/34	Lab Control Sample	Total/NA	Water	300.0	
500-225637-5 MS	MW-11	Total/NA	Water	300.0	
500-225637-5 MSD	MW-11	Total/NA	Water	300.0	
500-225637-7 MS	2S/3S Duplicate	Total/NA	Water	300.0	
500-225637-7 MSD	2S/3S Duplicate	Total/NA	Water	300.0	

Analysis Batch: 689941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-6	MW-12	Total/NA	Water	300.0	
MB 500-689941/11	Method Blank	Total/NA	Water	300.0	
LCS 500-689941/12	Lab Control Sample	Total/NA	Water	300.0	

QC Sample Results

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

Job ID: 500-225637-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-688396/1-A
Matrix: Water
Analysis Batch: 689114

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 688396

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		12/06/22 08:47	12/06/22 19:40	1
Arsenic	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 19:40	1
Barium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 19:40	1
Beryllium	<0.0010	^+	0.0010		mg/L		12/06/22 08:47	12/06/22 19:40	1
Cadmium	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 19:40	1
Calcium	<0.20		0.20		mg/L		12/06/22 08:47	12/06/22 19:40	1
Chromium	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 19:40	1
Cobalt	<0.0010		0.0010		mg/L		12/06/22 08:47	12/06/22 19:40	1
Lead	<0.00050		0.00050		mg/L		12/06/22 08:47	12/06/22 19:40	1
Molybdenum	<0.0050		0.0050		mg/L		12/06/22 08:47	12/06/22 19:40	1
Selenium	<0.0025		0.0025		mg/L		12/06/22 08:47	12/06/22 19:40	1
Thallium	<0.0020		0.0020		mg/L		12/06/22 08:47	12/06/22 19:40	1

Lab Sample ID: MB 500-688396/1-A
Matrix: Water
Analysis Batch: 689195

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 688396

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lithium	<0.010		0.010		mg/L		12/06/22 08:47	12/09/22 20:33	1

Lab Sample ID: MB 500-688396/1-A
Matrix: Water
Analysis Batch: 689345

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 688396

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		12/06/22 08:47	12/10/22 17:45	1

Lab Sample ID: LCS 500-688396/2-A
Matrix: Water
Analysis Batch: 689114

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 688396

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Antimony	0.500	0.508		mg/L		102	80 - 120
Arsenic	0.100	0.0953		mg/L		95	80 - 120
Barium	2.00	2.06		mg/L		103	80 - 120
Beryllium	0.0500	0.0502	^+	mg/L		100	80 - 120
Cadmium	0.0500	0.0493		mg/L		99	80 - 120
Calcium	10.0	10.0		mg/L		100	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.532		mg/L		106	80 - 120
Lead	0.100	0.109		mg/L		109	80 - 120
Molybdenum	1.00	0.959		mg/L		96	80 - 120
Selenium	0.100	0.0920		mg/L		92	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

QC Sample Results

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

Job ID: 500-225637-1

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

Lab Sample ID: LCS 500-688396/2-A
Matrix: Water
Analysis Batch: 689195

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 688396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.492		mg/L		98	80 - 120

Lab Sample ID: LCS 500-688396/2-A
Matrix: Water
Analysis Batch: 689345

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 688396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.06		mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-687510/12-A
Matrix: Water
Analysis Batch: 687783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 687510

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/30/22 10:15	12/01/22 07:57	1

Lab Sample ID: LCS 500-687510/13-A
Matrix: Water
Analysis Batch: 687783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 687510

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00165		mg/L		83	80 - 120

Lab Sample ID: 500-225637-1 MS
Matrix: Water
Analysis Batch: 687783

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 687510

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000998		mg/L		100	75 - 125

Lab Sample ID: 500-225637-1 MSD
Matrix: Water
Analysis Batch: 687783

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 687510

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125	0	20

Lab Sample ID: 500-225637-1 DU
Matrix: Water
Analysis Batch: 687783

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 687510

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020			<0.00020		mg/L				NC	20

QC Sample Results

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

Job ID: 500-225637-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-689188/33
Matrix: Water
Analysis Batch: 689188

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			12/09/22 17:47	1

Lab Sample ID: LCS 500-689188/34
Matrix: Water
Analysis Batch: 689188

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.10		mg/L		110	90 - 110

Lab Sample ID: 500-225637-5 MS
Matrix: Water
Analysis Batch: 689188

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.71		0.600	1.27		mg/L		93	80 - 120

Lab Sample ID: 500-225637-5 MSD
Matrix: Water
Analysis Batch: 689188

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.71		0.600	1.28		mg/L		94	80 - 120	1	20

Lab Sample ID: 500-225637-7 MS
Matrix: Water
Analysis Batch: 689188

Client Sample ID: 2S/3S Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.61		0.600	1.12		mg/L		85	80 - 120

Lab Sample ID: 500-225637-7 MSD
Matrix: Water
Analysis Batch: 689188

Client Sample ID: 2S/3S Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.61		0.600	1.12		mg/L		84	80 - 120	1	20

Lab Sample ID: MB 500-689941/11
Matrix: Water
Analysis Batch: 689941

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.20		0.20		mg/L			12/14/22 15:53	1

Lab Sample ID: LCS 500-689941/12
Matrix: Water
Analysis Batch: 689941

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	1.00	1.05		mg/L		105	90 - 110

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QC Sample Results

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

Job ID: 500-225637-1

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

Lab Sample ID: MB 500-685754/1
Matrix: Water
Analysis Batch: 685754

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/18/22 03:17	1

Lab Sample ID: LCS 500-685754/2
Matrix: Water
Analysis Batch: 685754

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	244		mg/L		98	80 - 120

Lab Sample ID: MB 500-686397/1
Matrix: Water
Analysis Batch: 686397

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/22/22 02:25	1

Lab Sample ID: LCS 500-686397/2
Matrix: Water
Analysis Batch: 686397

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	252		mg/L		101	80 - 120

Lab Sample ID: 500-225637-2 MS
Matrix: Water
Analysis Batch: 686397

Client Sample ID: MW-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	600		250	848		mg/L		98	75 - 125

Lab Sample ID: 500-225637-2 DU
Matrix: Water
Analysis Batch: 686397

Client Sample ID: MW-06
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	600		578		mg/L		4	5

Lab Sample ID: 500-225637-3 DU
Matrix: Water
Analysis Batch: 686397

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	690		712		mg/L		4	5

QC Sample Results

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

Job ID: 500-225637-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-688458/48
Matrix: Water
Analysis Batch: 688458

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			12/06/22 09:48	1

Lab Sample ID: LCS 500-688458/49
Matrix: Water
Analysis Batch: 688458

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.5		mg/L		103	85 - 115

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-687313/181
Matrix: Water
Analysis Batch: 687313

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			11/29/22 11:16	1

Lab Sample ID: MB 500-687313/217
Matrix: Water
Analysis Batch: 687313

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			11/29/22 11:44	1

Lab Sample ID: LCS 500-687313/182
Matrix: Water
Analysis Batch: 687313

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	22.7		mg/L		114	88 - 123

Lab Sample ID: LCS 500-687313/218
Matrix: Water
Analysis Batch: 687313

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	23.2		mg/L		116	88 - 123

Lab Sample ID: 500-225637-7 MS
Matrix: Water
Analysis Batch: 687313

Client Sample ID: 2S/3S Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	190		20.0	202	4	mg/L		84	75 - 125

QC Sample Results

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

Job ID: 500-225637-1

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

Lab Sample ID: 500-225637-7 MSD
Matrix: Water
Analysis Batch: 687313

Client Sample ID: 2S/3S Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	190		20.0	200	4	mg/L		77	75 - 125	1	20

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

Lab Chronicle

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

Job ID: 500-225637-1

Client Sample ID: MW-05
Date Collected: 11/15/22 14:50
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 20:54
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:25
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		20	689345	FXG	EET CHI	12/10/22 18:36
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 ¹
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:29
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:06
Total/NA	Analysis	SM 2540C		1	685754	CLB	EET CHI	11/18/22 04:16
Total/NA	Analysis	SM 4500 CI- E		1	688458	LP	EET CHI	12/06/22 09:50
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:22

Client Sample ID: MW-06
Date Collected: 11/16/22 09:38
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:04
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:29
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		10	689345	FXG	EET CHI	12/10/22 18:40
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 ¹
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:41
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:19
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:30
Total/NA	Analysis	SM 4500 CI- E		1	688458	LP	EET CHI	12/06/22 09:50
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:22

Client Sample ID: MW-09
Date Collected: 11/16/22 14:39
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:08
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:32
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		5	689345	FXG	EET CHI	12/10/22 18:43
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 ¹
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:43

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-225637-1

Client Sample ID: MW-09
Date Collected: 11/16/22 14:39
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:31
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:37
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:50
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:23

Client Sample ID: MW-10
Date Collected: 11/16/22 12:02
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:12
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:36
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		10	689345	FXG	EET CHI	12/10/22 18:47
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 ¹
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:45
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:44
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:43
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:50
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:24

Client Sample ID: MW-11
Date Collected: 11/16/22 13:09
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:15
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:39
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		10	689345	FXG	EET CHI	12/10/22 18:50
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 ¹
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:48
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 20:56
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:45
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:51
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:24

Lab Chronicle

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

Job ID: 500-225637-1

Client Sample ID: MW-12
Date Collected: 11/16/22 10:23
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:19
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:43
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		5	689345	FXG	EET CHI	12/10/22 18:54
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 ¹
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:50
Total/NA	Analysis	300.0		1	689941	RES	EET CHI	12/14/22 19:16
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:48
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 09:51
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 11:24

Client Sample ID: 2S/3S Duplicate
Date Collected: 11/16/22 00:00
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689114	FXG	EET CHI	12/06/22 21:22
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		1	689195	FXG	EET CHI	12/09/22 21:47
Total Recoverable	Prep	3005A			688396	BDE	EET CHI	12/06/22 08:47 - 12/06/22 09:17 ¹
Total Recoverable	Analysis	6020A		5	689345	FXG	EET CHI	12/10/22 18:57
Total/NA	Prep	7470A			687510	MJG	EET CHI	11/30/22 10:15 - 11/30/22 12:15 ¹
Total/NA	Analysis	7470A		1	687783	MJG	EET CHI	12/01/22 08:52
Total/NA	Analysis	300.0		1	689188	RES	EET CHI	12/09/22 22:00
Total/NA	Analysis	SM 2540C		1	686397	CLB	EET CHI	11/22/22 02:50
Total/NA	Analysis	SM 4500 CI- E		10	688458	LP	EET CHI	12/06/22 10:08
Total/NA	Analysis	SM 4500 SO4 E		10	687313	LP	EET CHI	11/29/22 12:01

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-225637-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225637-1

Login Number: 225637

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,1.8,0.4,0.6,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Mitchel Dolan
KPRG and Associates, Inc.
414 Plaza Drive Suite 106
Westmont, Illinois 60559
Generated 12/22/2022 7:50:47 AM

JOB DESCRIPTION

Will County CCR (RAD)

JOB NUMBER

500-225637-2

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



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12/22/2022 7:50:47 AM

Authorized for release by
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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Job ID: 500-225637-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-225637-2

Comments

No additional comments.

Receipt

The samples were received on 11/17/2022 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.4° C, 0.6° C, 1.0° C, 1.4° C and 1.8° C.

RAD

Method 903.0: Radium-226 batch 591407

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

MW-05 (500-225637-1), MW-06 (500-225637-2), MW-09 (500-225637-3), MW-10 (500-225637-4), MW-11 (500-225637-5), MW-12 (500-225637-6), 2S/3S Duplicate (500-225637-7), (LCS 160-591407/2-A), (MB 160-591407/1-A) and (500-225637-C-1-A DU)

Method 904.0: Radium-228 batch 591417

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-10 (500-225637-4). Analytical results are reported with the detection limit achieved.

Method 904.0: Radium-228 batch 591417

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

MW-05 (500-225637-1), MW-06 (500-225637-2), MW-09 (500-225637-3), MW-10 (500-225637-4), MW-11 (500-225637-5), MW-12 (500-225637-6), 2S/3S Duplicate (500-225637-7), (LCS 160-591417/2-A), (MB 160-591417/1-A) and (500-225637-C-1-B DU)

Method PrecSep_0:

Method PrecSep-21:

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

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225637-1	MW-05	Water	11/15/22 14:50	11/17/22 15:20
500-225637-2	MW-06	Water	11/16/22 09:38	11/17/22 15:20
500-225637-3	MW-09	Water	11/16/22 14:39	11/17/22 15:20
500-225637-4	MW-10	Water	11/16/22 12:02	11/17/22 15:20
500-225637-5	MW-11	Water	11/16/22 13:09	11/17/22 15:20
500-225637-6	MW-12	Water	11/16/22 10:23	11/17/22 15:20
500-225637-7	2S/3S Duplicate	Water	11/16/22 00:00	11/17/22 15:20

- 1
- 2
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- 14

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: MW-05

Lab Sample ID: 500-225637-1

Date Collected: 11/15/22 14:50

Matrix: Water

Date Received: 11/17/22 15:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.108	U	0.0930	0.0935	1.00	0.142	pCi/L	11/29/22 09:20	12/21/22 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					11/29/22 09:20	12/21/22 12:27	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.371	U	0.356	0.357	1.00	0.569	pCi/L	11/29/22 09:44	12/15/22 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		40 - 110					11/29/22 09:44	12/15/22 12:02	1
Y Carrier	80.4		40 - 110					11/29/22 09:44	12/15/22 12:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.479	U	0.368	0.369	5.00	0.569	pCi/L		12/21/22 18:30	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: MW-06

Lab Sample ID: 500-225637-2

Date Collected: 11/16/22 09:38

Matrix: Water

Date Received: 11/17/22 15:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170		0.0968	0.0979	1.00	0.125	pCi/L	11/29/22 09:20	12/21/22 12:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/29/22 09:20	12/21/22 12:27	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.912		0.390	0.399	1.00	0.504	pCi/L	11/29/22 09:44	12/15/22 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		40 - 110					11/29/22 09:44	12/15/22 12:02	1
Y Carrier	83.4		40 - 110					11/29/22 09:44	12/15/22 12:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.402	0.411	5.00	0.504	pCi/L		12/21/22 18:30	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: MW-09

Lab Sample ID: 500-225637-3

Date Collected: 11/16/22 14:39

Matrix: Water

Date Received: 11/17/22 15:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0532	U	0.0841	0.0843	1.00	0.145	pCi/L	11/29/22 09:20	12/21/22 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					11/29/22 09:20	12/21/22 12:28	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.152	U	0.292	0.292	1.00	0.510	pCi/L	11/29/22 09:44	12/15/22 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.2		40 - 110					11/29/22 09:44	12/15/22 12:02	1
Y Carrier	82.2		40 - 110					11/29/22 09:44	12/15/22 12:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.205	U	0.304	0.304	5.00	0.510	pCi/L		12/21/22 18:30	1

Client Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: MW-10
Date Collected: 11/16/22 12:02
Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.252		0.166	0.167	1.00	0.227	pCi/L	11/29/22 09:20	12/21/22 12:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.7		40 - 110					11/29/22 09:20	12/21/22 12:28	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.49	G	0.875	0.905	1.00	1.06	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.7		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	81.9		40 - 110					11/29/22 09:44	12/15/22 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.74		0.891	0.920	5.00	1.06	pCi/L		12/21/22 18:30	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: MW-11

Lab Sample ID: 500-225637-5

Date Collected: 11/16/22 13:09

Matrix: Water

Date Received: 11/17/22 15:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.491		0.187	0.192	1.00	0.209	pCi/L	11/29/22 09:20	12/21/22 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					11/29/22 09:20	12/21/22 12:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.12		0.663	0.671	1.00	0.983	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.6		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	81.1		40 - 110					11/29/22 09:44	12/15/22 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.61		0.689	0.698	5.00	0.983	pCi/L		12/21/22 18:30	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: MW-12

Lab Sample ID: 500-225637-6

Date Collected: 11/16/22 10:23

Matrix: Water

Date Received: 11/17/22 15:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0719	U	0.0848	0.0850	1.00	0.139	pCi/L	11/29/22 09:20	12/21/22 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					11/29/22 09:20	12/21/22 12:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.963		0.425	0.434	1.00	0.569	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.3		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	83.0		40 - 110					11/29/22 09:44	12/15/22 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.03		0.433	0.442	5.00	0.569	pCi/L		12/21/22 18:30	1

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-225637-7

Date Collected: 11/16/22 00:00

Matrix: Water

Date Received: 11/17/22 15:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0114	U	0.0661	0.0661	1.00	0.130	pCi/L	11/29/22 09:20	12/21/22 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/29/22 09:20	12/21/22 12:29	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.200	U	0.349	0.349	1.00	0.600	pCi/L	11/29/22 09:44	12/15/22 12:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		40 - 110					11/29/22 09:44	12/15/22 12:04	1
Y Carrier	82.6		40 - 110					11/29/22 09:44	12/15/22 12:04	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.211	U	0.355	0.355	5.00	0.600	pCi/L		12/21/22 18:30	1

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Rad

Prep Batch: 591407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	PrecSep-21	
500-225637-2	MW-06	Total/NA	Water	PrecSep-21	
500-225637-3	MW-09	Total/NA	Water	PrecSep-21	
500-225637-4	MW-10	Total/NA	Water	PrecSep-21	
500-225637-5	MW-11	Total/NA	Water	PrecSep-21	
500-225637-6	MW-12	Total/NA	Water	PrecSep-21	
500-225637-7	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
MB 160-591407/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-591407/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-225637-1 DU	MW-05	Total/NA	Water	PrecSep-21	

Prep Batch: 591417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225637-1	MW-05	Total/NA	Water	PrecSep_0	
500-225637-2	MW-06	Total/NA	Water	PrecSep_0	
500-225637-3	MW-09	Total/NA	Water	PrecSep_0	
500-225637-4	MW-10	Total/NA	Water	PrecSep_0	
500-225637-5	MW-11	Total/NA	Water	PrecSep_0	
500-225637-6	MW-12	Total/NA	Water	PrecSep_0	
500-225637-7	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
MB 160-591417/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-591417/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-225637-1 DU	MW-05	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-591407/1-A
Matrix: Water
Analysis Batch: 594432

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591407

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03040	U	0.0706	0.0707	1.00	0.128	pCi/L	11/29/22 09:20	12/21/22 12:27	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	97.1		40 - 110			11/29/22 09:20	12/21/22 12:27	1		

Lab Sample ID: LCS 160-591407/2-A
Matrix: Water
Analysis Batch: 594432

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591407

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.44		1.10	1.00	0.139	pCi/L	92	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Ba Carrier	96.4		40 - 110						

Lab Sample ID: 500-225637-1 DU
Matrix: Water
Analysis Batch: 594432

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 591407

Analyte	Sample Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.108	U	0.1483		0.100	1.00	0.139	pCi/L	0.21	1
Carrier	DU %Yield	DU Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	87.4		40 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-591417/1-A
Matrix: Water
Analysis Batch: 593777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 591417

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.3878	U	0.298	0.300	1.00	0.452	pCi/L	11/29/22 09:44	12/15/22 12:01	1
Carrier	MB MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	97.1		40 - 110			11/29/22 09:44	12/15/22 12:01	1		
Y Carrier	83.4		40 - 110			11/29/22 09:44	12/15/22 12:01	1		

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

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

Lab Sample ID: LCS 160-591417/2-A
Matrix: Water
Analysis Batch: 593777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 591417

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.36	9.304		1.27	1.00	0.509	pCi/L	111	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	96.4		40 - 110							
Y Carrier	83.0		40 - 110							

Lab Sample ID: 500-225637-1 DU
Matrix: Water
Analysis Batch: 593777

Client Sample ID: MW-05
Prep Type: Total/NA
Prep Batch: 591417

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.371	U	0.7200		0.405	1.00	0.565	pCi/L	0.46	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	87.4		40 - 110							
Y Carrier	81.1		40 - 110							

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: MW-05

Date Collected: 11/15/22 14:50

Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:27
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593777	FLC	EET SL	12/15/22 12:02
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Client Sample ID: MW-06

Date Collected: 11/16/22 09:38

Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:27
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593777	FLC	EET SL	12/15/22 12:02
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Client Sample ID: MW-09

Date Collected: 11/16/22 14:39

Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:28
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593777	FLC	EET SL	12/15/22 12:02
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Client Sample ID: MW-10

Date Collected: 11/16/22 12:02

Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:28
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Client Sample ID: MW-11

Date Collected: 11/16/22 13:09

Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Client Sample ID: MW-12

Date Collected: 11/16/22 10:23

Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Client Sample ID: 2S/3S Duplicate

Date Collected: 11/16/22 00:00

Date Received: 11/17/22 15:20

Lab Sample ID: 500-225637-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			591407	BMP	EET SL	11/29/22 09:20
Total/NA	Analysis	903.0		1	594432	FLC	EET SL	12/21/22 12:29
Total/NA	Prep	PrecSep_0			591417	BMP	EET SL	11/29/22 09:44
Total/NA	Analysis	904.0		1	593774	FLC	EET SL	12/15/22 12:04
Total/NA	Analysis	Ra226_Ra228		1	594570	CLP	EET SL	12/21/22 18:30

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

Laboratory: Eurofins St. Louis

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

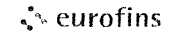
Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

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- 13
- 14

Eurofins Chicago

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

Chain of Custody Record



Client Information		Sampler: IAN JOHN HOWIESON	Lab PM: Mockler Diana J	Carrier Tracking No(s):	COC No: 500 106660-45300 1
Client Contact: Mitchel Dolan		Phone: 630-325-1300	E Mail: Diana Mockler@et eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: KPRG and Associates Inc		PWSID		Job #: 500-225637	
Address: 414 Plaza Drive Suite 106 City: Westmont State Zip: IL 60559 Phone: 500-225637 COC		Due Date Requested		Analysis Requested	
Email: mitcheld@kprginc.com		TAT Requested (days)		Preservation Codes	
Project Name: Will County 2S/3S Event Desc Quarterly GW Monitoring		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)	
Site: Illinois		Project #: 50011609		Other:	
SSOW#		Project #		Total Number of containers	
Sample Identification		Sample Date		Special Instructions/Note	
Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
Preservation Code		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
		903.0 904.0		903.0 904.0	
		6010C, 6020A, 7470A		6010C, 6020A, 7470A	
		2540C 4500_F_C SM4500_CL_E SM4500_SO4_E		2540C 4500_F_C SM4500_CL_E SM4500_SO4_E	
1 MW-05		11-15-22 14:50 G Water		N N X X X	
2 MW-06		11-16-22 09:38 G Water		N N X X X	
3 MW-09		11-16-22 14:39 G Water		N N X X X	
4 MW 10		11-16-22 12:02 G Water		N N X X X	
5 MW 11		11-16-22 13:09 G Water		N N X X X	
6 MW-12		11-16-22 10:23 G Water		N N X X X	
7 2S/3S Duplicate		11-16-22 — G Water		N N X X X	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date		Time	
Relinquished by		Date/Time		Method of Shipment	
Relinquished by		Date/Time		Received by	
Relinquished by		Date/Time		Date/Time	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks.	

1.9 → 1.4 28 → 1.8, 0.9 → 0.8, 1 → 0.6, 1.5 → 1.0

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225637-2

Login Number: 225637

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,1.8,0.4,0.6,1.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225637-2

Login Number: 225637

List Number: 2

Creator: Bohlmann, Jessica M

List Source: Eurofins St. Louis

List Creation: 11/21/22 01:47 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	

Tracer/Carrier Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR (RAD)

Job ID: 500-225637-2

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)
500-225637-1	MW-05	91.0
500-225637-1 DU	MW-05	87.4
500-225637-2	MW-06	91.5
500-225637-3	MW-09	84.2
500-225637-4	MW-10	61.7
500-225637-5	MW-11	81.6
500-225637-6	MW-12	90.3
500-225637-7	2S/3S Duplicate	84.5
LCS 160-591407/2-A	Lab Control Sample	96.4
MB 160-591407/1-A	Method Blank	97.1

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-225637-1	MW-05	91.0	80.4
500-225637-1 DU	MW-05	87.4	81.1
500-225637-2	MW-06	91.5	83.4
500-225637-3	MW-09	84.2	82.2
500-225637-4	MW-10	61.7	81.9
500-225637-5	MW-11	81.6	81.1
500-225637-6	MW-12	90.3	83.0
500-225637-7	2S/3S Duplicate	84.5	82.6
LCS 160-591417/2-A	Lab Control Sample	96.4	83.0
MB 160-591417/1-A	Method Blank	97.1	83.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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

Attn: Mitchel Dolan
KPRG and Associates, Inc.
414 Plaza Drive Suite 106
Westmont, Illinois 60559

Generated 1/9/2023 9:31:37 AM

JOB DESCRIPTION

Will County CCR 2S/3S Resample

JOB NUMBER

500-227549-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



Generated
1/9/2023 9:31:37 AM

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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Job ID: 500-227549-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-227549-1**

Comments

No additional comments.

Receipt

The samples were received on 1/4/2023 9:40 AM. 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 2.5° C.

Metals

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

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Detection Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Client Sample ID: MW-05

Lab Sample ID: 500-227549-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0094		0.0010		mg/L	1		6020A	Total Recoverable
Selenium	0.10		0.0025		mg/L	1		6020A	Total Recoverable

Client Sample ID: MW-10

Lab Sample ID: 500-227549-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.071		0.0010		mg/L	1		6020A	Total Recoverable

Client Sample ID: MW-11

Lab Sample ID: 500-227549-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.015		0.0010		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-227549-1	MW-05	Water	12/29/22 11:31	01/04/23 09:40
500-227549-2	MW-10	Water	12/29/22 11:44	01/04/23 09:40
500-227549-3	MW-11	Water	12/29/22 11:18	01/04/23 09:40

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Client Sample ID: MW-05
Date Collected: 12/29/22 11:31
Date Received: 01/04/23 09:40

Lab Sample ID: 500-227549-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0094		0.0010		mg/L		01/05/23 08:10	01/05/23 17:54	1
Selenium	0.10		0.0025		mg/L		01/05/23 08:10	01/05/23 17:54	1

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Client Sample ID: MW-10
Date Collected: 12/29/22 11:44
Date Received: 01/04/23 09:40

Lab Sample ID: 500-227549-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.071		0.0010		mg/L		01/05/23 08:10	01/05/23 17:57	1

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Client Sample ID: MW-11
Date Collected: 12/29/22 11:18
Date Received: 01/04/23 09:40

Lab Sample ID: 500-227549-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015		0.0010		mg/L		01/05/23 08:10	01/05/23 18:01	1

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Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Glossary

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

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Metals

Prep Batch: 692542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-227549-1	MW-05	Total Recoverable	Water	3005A	
500-227549-2	MW-10	Total Recoverable	Water	3005A	
500-227549-3	MW-11	Total Recoverable	Water	3005A	
MB 500-692542/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-692542/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 692838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-227549-1	MW-05	Total Recoverable	Water	6020A	692542
500-227549-2	MW-10	Total Recoverable	Water	6020A	692542
500-227549-3	MW-11	Total Recoverable	Water	6020A	692542
MB 500-692542/1-A	Method Blank	Total Recoverable	Water	6020A	692542
LCS 500-692542/2-A	Lab Control Sample	Total Recoverable	Water	6020A	692542

QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-692542/1-A
Matrix: Water
Analysis Batch: 692838

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 692542

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		01/05/23 08:10	01/05/23 17:30	1
Selenium	<0.0025		0.0025		mg/L		01/05/23 08:10	01/05/23 17:30	1

Lab Sample ID: LCS 500-692542/2-A
Matrix: Water
Analysis Batch: 692838

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 692542

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0969		mg/L		97	80 - 120
Selenium	0.100	0.101		mg/L		101	80 - 120



Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Client Sample ID: MW-05

Date Collected: 12/29/22 11:31

Date Received: 01/04/23 09:40

Lab Sample ID: 500-227549-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			692542	BDE	EET CHI	01/05/23 08:10 - 01/05/23 08:40 ¹
Total Recoverable	Analysis	6020A		1	692838	FXG	EET CHI	01/05/23 17:54

Client Sample ID: MW-10

Date Collected: 12/29/22 11:44

Date Received: 01/04/23 09:40

Lab Sample ID: 500-227549-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			692542	BDE	EET CHI	01/05/23 08:10 - 01/05/23 08:40 ¹
Total Recoverable	Analysis	6020A		1	692838	FXG	EET CHI	01/05/23 17:57

Client Sample ID: MW-11

Date Collected: 12/29/22 11:18

Date Received: 01/04/23 09:40

Lab Sample ID: 500-227549-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			692542	BDE	EET CHI	01/05/23 08:10 - 01/05/23 08:40 ¹
Total Recoverable	Analysis	6020A		1	692838	FXG	EET CHI	01/05/23 18:01

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Laboratory References:

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

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Will County CCR 2S/3S Resample

Job ID: 500-227549-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-30-23

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)	Bill To (optional)
Contact: <u>Michael DeLeon</u>	Contact: _____
Company: <u>KPR Grand Associates</u>	Company: _____
Address: <u>11005 W. 150th St, 507A Brookfield, IL 60015</u>	Address: _____
Address: _____	Address: _____
Phone: <u>262 721 0475</u>	Phone: _____
Fax: _____	Fax: _____
E-Mail: <u>m.tchrd@kprinc.com</u>	PO#/Reference# _____

Chain of Custody Record

Lab Job # 50011609

Chain of Custody Number _____

Page 1 of 1

Temperature °C of Cooler 5 22

Client		Client Project #		Preservative		Parameter		Matrix		Preservative Key
Project Name		Project Location/State		Lab Project #		Lab PM		Sampler		
KPR Grand Associates		12313.3		3		3		Arsenic		1 HCL, Cool to 4° 2 H2SO4, Cool to 4° 3 HNO3, Cool to 4° 4 NaOH, Cool to 4° 5 NaOH/Zn, Cool to 4° 6 NaHSO4 7 Cool to 4° 8 None 9 Other
Will County CCR 25/30		IL		50011609		Diane Mockler		Kaelyn Sperle		
Lab ID	M/S/MSD	Sample ID	Date	Time	# of Containers	Matrix	Comments			
		MW-C5	12/29/12	1131	1 W	X				
1		MW-10	12/29/12	1144	1 W	X				
3		MW 11	12/29/12	1118	1 W	X				

Turnaround Time Required (Business Days): 1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other

Requested Due Date: Standard

Sample Disposal: Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: <u>Kaelyn Sperle</u> Company: <u>KPR</u> Date: <u>12/30/12</u> Time: <u>10:35</u>	Received By: <u>JR Cox</u> Company: <u>Eurofins</u> Date: <u>12/30/12</u> Time: <u>10:35</u>	Lab Courier: _____
Relinquished By: <u>Jerrk</u> Company: <u>Eurofins</u> Date: <u>01/03/13</u> Time: <u>15:41</u>	Received By: <u>...</u> Company: <u>...</u> Date: <u>1/4/13</u> Time: <u>09:41</u>	Shipped: _____
Relinquished By: _____	Received By: _____	Hand Delivered: _____

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments: _____

Lab Comments: _____



500-227549 Waybl

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 03JAN23
ACTWGT: 58.10 LB
CAD: 0269688/CAFE3616

BILL RECIPIENT

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

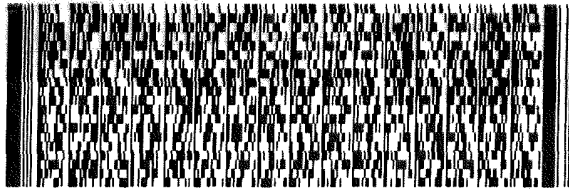
4227022032801 UV

UNIVERSITY PARK IL 60484

(262) 202-5955
JHU:
PO:

REF:

DEPT:



FedEx
Express



4227022032801 UV

WED - 04 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 6155 6317 8041
0201

79 JOTA

60484
IL-US **ORD**



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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-227549-1

Login Number: 227549

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



APPENDIX B

Alternate Source Demonstration – March 28, 2022



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

ALTERNATE SOURCE DEMONSTRATION
CCR GROUNDWATER MONITORING
WILL COUNTY GENERATING STATION

March 28, 2022

Ms. Sharene Shealey
Midwest Generation, LLC
529 E. Romeo Road
Romeoville, IL 60446

VIA E-MAIL

Re: Alternate Source Demonstration – Chloride at MW-11
Will County Generating Station – Ash Ponds

Dear Ms. Shealey:

Detection Monitoring requirements in accordance with the Federal Register, Environmental Protection Agency, 40 CFR Parts 257.94, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule dated April 17, 2015 (CCR Rule) have been ongoing for the Ash Ponds 2 South (2S) and 3 South (3S) monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Will County Generating Station. The CCR monitoring well network around these ponds consists of six monitoring wells (MW-05, MW-06, MW-09, MW-10, MW-11 and MW-12) as shown on Figure 1. Wells MW-05 and MW-06 are upgradient wells.

The fourth quarter (second semi-annual) 2021 Federal CCR detection monitoring for Ponds 2S and 3S was completed on November 23, 2021 and the data was received December 16, 2021. A review of the data indicated a chloride concentration at monitoring well MW-11 of 150 mg/l which is just above the 95% upper prediction limit (PL) of 149 mg/l. A confirmatory resampling for chloride at this well was completed on December 22, 2021 and the resample data was received on December 29, 2021. The resample result was again at 150 mg/l confirming the initial concentration being above the established PL. The data summary table is provided in Attachment 1. Based on this confirmatory data, completion of an ASD focused on chloride in well MW-11 was recommended.

This report summarizes the results of the ASD in accordance with 40 CFR 257.94(e)(2) completed for the Will County Generating Station Ash Ponds 2S and 3S. The report is structured to provide a summary of previously generated Leaching Environmental

Assessment Framework (LEAF) Test data for chloride, an alternate source evaluation, conclusions and recommendations.

DOCUMENTATION OF FIELD ACTIVITIES

To assist in evaluating a potential alternate source, LEAF Test data for chloride generated in support of the previously mentioned ASD was used. This data remains representative of chloride leachate concentrations since the source of coal and the combustion process generating the ash in Ponds 2S and 3S has not changed. For completeness purposes, below is a description of the sampling procedures used for the pond water and ash sample collection and analysis completed in 2018.

A pond water sample was collected from Pond 3S directly into laboratory prepared containers, transported on ice under a completed chain-of-custody to the analytical laboratory and analyzed for CCR Appendix III detection monitoring parameters. No sample was collected for ash pond 2S due to frozen conditions. One composite ash sample was collected for each of the two ponds (2S and 3S). The composite samples consisted of a series of equivalent grab samples from across the length of the pond, from the inlet area to the outfall, to minimize potential skewing of the sample due to gradation changes (i.e., a larger coarse fraction near the inlet and a larger fine fraction near outfall). The individual grab samples were thoroughly mixed to form a single composite sample for each pond. The composite samples were transferred directly into laboratory prepared containers, placed on ice and shipped to the analytical laboratory under a completed chain-of-custody. The ash sediment samples were analyzed using the LEAF Test using Method 1313. Under this method, each ash sediment sample underwent leaching over a range of eight pH values plus under “Natural pH” conditions. The Natural pH condition is the actual pH of the ash itself measured in the laboratory prior to any pH modifications performed under the LEAF Test. The collected leachate from each pH value was analyzed for CCR Appendix III detection monitoring parameters. The analytical data package is included in Attachment 2.

CHLORIDE LEAF TEST DATA OBSERVATIONS

The results of the pond water and the ash LEAF Test analyses are provided in Tables 1 and 2, respectively. A review of Tables 1 and 2 indicates that the Natural pH of the ash leachate ranges from 8.8 to 9.3 which is higher by an order of magnitude, or more, than the noted pH of the pond water sample (7.8). This suggests that the pond water sample is not fully representative of equilibrium conditions of expected pore water within the ash sediment and, therefore, that the compound specific data from the pond water sample may also not be representative of leachate under equilibrium conditions. Based on this observation, the focus of this analysis will rely on the results of the LEAF Test data and in particular the data from the “Natural pH” samples.

Focusing on the chloride LEAF Test data, the graphical distribution of results is provided on Figure 2 as a function of pH. Relative to chloride, there were some non-detect values within the LEAF Test data. For these cases, one-half of the noted detection limit was used for graphing purposes. The chloride concentrations do not appear to be a function of pH

with a relatively narrow range of concentrations. The Natural pH test data and the upgradient monitoring well data all plot within a similar range as defined by the LEAF Test data. The range of detected chloride concentrations from the LEAF Testing, including the Natural pH test, is 12 to 210 mg/l with an average of 48.7 (using one-half reporting limit for non-detect values). It is also noted that the 210 mg/l value appears to be an outlier with the next highest LEAF Test concentration being 69 mg/l.

ALTERNATE SOURCE EVALUATION OF CHLORIDE AT WELL MW-11

The alternate source evaluation for chloride at well MW-11 included the following:

- Estimated groundwater flow time between upgradient wells and downgradient well MW-11.
- Consideration of upgradient chloride concentrations potentially mixing with ash leachate concentrations based on LEAF test results.
- Statistical Trend analysis for chloride in upgradient and downgradient wells.

Estimated Groundwater Flow Time - Seepage Velocity

As part of Federal CCR Compliance Annual Groundwater Monitoring and Corrective Action Report dated January 31, 2022, groundwater flow direction and seepage velocity estimates must be provided. The seepage velocity is calculated using an estimated hydraulic conductivity value, average horizontal hydraulic gradients and an effective porosity estimate. The calculation formula is provided in the above referenced Annual Report and the resulting summary table for seepage velocity estimates which was provided in that report is included as Attachment 3. It is noted that two values are provided for hydraulic conductivity (K_{avg}) estimates in the table, one being 4.32 E-04 ft/sec and the second being 2.31 E-04 ft/sec. The initial 4.32 E-04 ft/sec estimate was provided by Patrick Engineering (Hydrogeologic Assessment Report – Will County Station, February 2011) in their evaluation of individual well slug test data. The second value was from a re-evaluation of that slug test data in support of groundwater flow modeling being developed for the site as part of anticipated State CCR compliance requirements. Using those two values to bracket a seepage velocity, the estimated range of groundwater flow velocity in the vicinity of Ponds 2S and 3S is 0.38 ft/day (approximately 140 ft/yr) to 0.71 ft/day (approximately 260 ft/yr).

Well MW-11 is approximately 450 feet downgradient of both upgradient wells MW-05 and MW-06. Based on the above seepage velocity estimates, groundwater from the upgradient well locations will require approximately 1.7 to 3.2 to years, the average being just under 2.5 years, to reach MW-11.

Groundwater/Ash Leachate Mixing Considerations

As discussed above, the average chloride concentration in LEAF Test leachate was 48.7 mg/l with a maximum value of 210 mg/l from one of the Ash Pond 2S analyses. The

upgradient groundwater chloride concentrations during the May 2019 groundwater sampling event (approximately 2.5 years previous to the November/December 2021 sampling; see groundwater seepage flow velocity discussion above) at wells MW-05 and MW-06 were 91 mg/l and 38 mg/l, respectively. If leachate was being mixed with groundwater flowing beneath the ponds, using a standard and very conservative approach of straight mixing of the two fluids with the estimated average leachate chloride concentration of 48.7 mg/l, the resulting estimated chloride concentration in downgradient monitoring wells would be on the order of 70 mg/l to 43 mg/l which is less than half the concentration of chloride detected at monitoring well MW-11 which was 150 mg/l. However, the noted high Leaf Test chloride value of 210 mg/l was from the Pond 2S ash sample and well MW-11 is immediately downgradient of that pond. Performing the same basic mixing calculation using the high Leaf Test chloride concentration of 210 mg/l results in estimated chloride concentrations in downgradient wells between 196 mg/l and 124 mg/l. The noted 150 mg/l concentration in well MW-11 is within this range of estimated concentrations.

Statistical Trend Analysis

Since there is chloride data for all monitoring wells within the Pond 2S and Pond 3S monitoring network dating back to 2015, a statistical trend evaluation for chloride was performed using linear regression analysis. The statistical analysis program Sanitas[®] was used to assist in this evaluation. The results of the analysis indicated that there were statistically significant downward trends in chloride at both upgradient monitoring wells MW-05 and MW-06. There were statistically significant increasing trends in monitoring wells MW-11 and MW-09. Both of these wells are immediately downgradient of Pond 2S. There were no statistically significant trends for chloride noted in the other two downgradient monitoring wells (MW-10 and MW-12). The statistical run report is provided in Attachment 4.

CONCLUSIONS/RECOMMENDATIONS

Based on the discussions provided above, it is not believed that Pond 3S is the source of downgradient chloride impacts at monitoring well MW-11, however, the data relative to the Pond 2S does not allow for that conclusion to be reached based on the following:

- Results of basic conservative fluid mixing calculations indicated that the observed chloride concentration in well MW-11 falls within the range of expected concentrations when mixing upgradient groundwater concentrations with the high value Leaf Test chloride concentration from Pond 2S.
- There are statistically significant decreasing trends in chloride concentrations in both upgradient monitoring wells and there are statistically significant increasing trends in chloride concentrations in monitoring wells MW-09 and MW-11, both of which are immediately downgradient of Pond 2S.

It is, therefore, recommended that this site be shifted from detection monitoring into assessment monitoring in accordance with Section 257.95 of the Federal CCR Rule.

If there are any questions, please contact me at 262-781-0475.

Sincerely,
KPRG and Associates, Inc.



Richard R. Gnat, P.G.
Principal



Timothy Stohner, P.E.
Sr. Project Manager/Sr. Engineer

cc: Jill Buckley, NRG
David Bacher, NRG
DeAndre Cooley, Midwest Generation

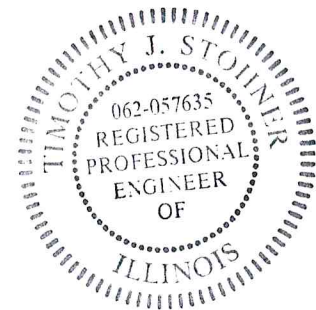
CERTIFICATION

In accordance with Section 257.94(e)(2) of the Federal CCR Rule, I hereby certify based on a review of the information contained within this CCR Alternate Source Demonstration dated March 28, 2022, that the information contained in this report is accurate to the best of my knowledge.

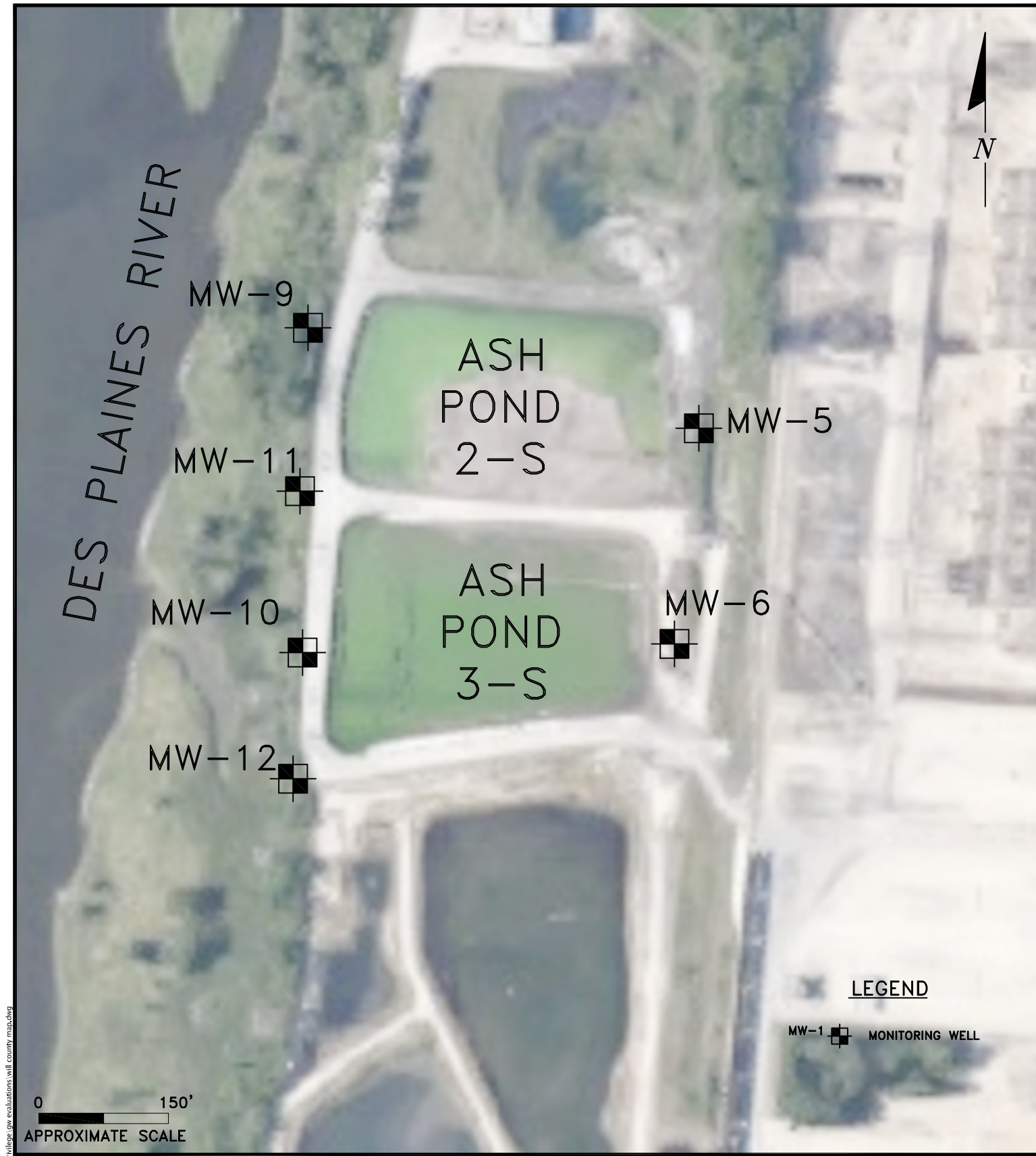
Certified by:

Date: March 28, 2022

Timothy Stohner, P.E.
Illinois Professional Engineer Registration No.: 062.057635
KPRG and Associates, Inc.



FIGURES



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ENVIRONMENTAL CONSULTATION & REMEDIATION

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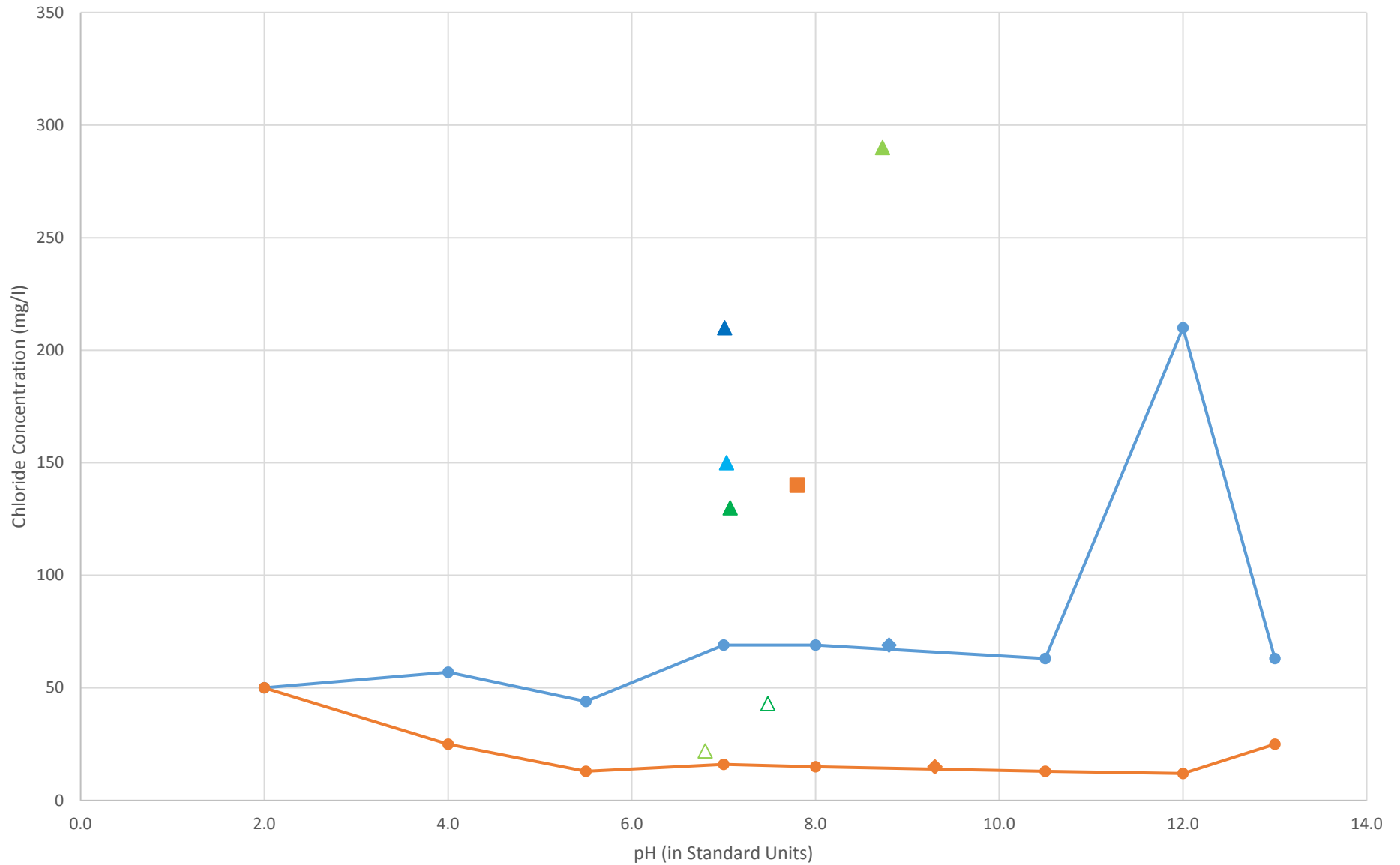
CCR MONITORING WELL SITE MAP

WILL COUNTY STATION
ROMEOWILLE, ILLINOIS

Scale: 1" = 150' | Date: December 27, 2017

KPRG Project No. 12313.3 | FIGURE 1

Figure 2. Chloride Concentration vs. pH Value - Will County Station



- Pond AP 2S LEAF
- Pond AP 3S LEAF
- ◆ Pond AP 2S Natural
- ◆ Pond AP 3S Natural
- Pond AP 3S Water
- ▲ MW-09
- ▲ MW-10
- ▲ MW-11
- ▲ MW-12
- △ MW-05
- △ MW-06

TABLES

Table 1. Pond Water Results - Midwest Generation Will County Station, Romeoville, Illinois

PARAMETER	UNITS	Pond AP 3S
Boron	mg/L	0.18
Calcium	mg/L	56
Chloride	mg/L	140
Fluoride	mg/L	0.52
pH	SU	7.8
Sulfate	mg/L	100
TDS	mg/L	540

Notes: Units are as noted.
TDS - Total Dissolved Solids

Table 2. LEAF Test Results from Ash Samples - Midwest Generation Will County Station, Romeoville, Illinois

AP 2S ASH PARAMETER	UNITS	LEAF TEST TARGETED pH VALUES								
		13.0	12.0	10.5	8.0	7.0	5.5	4.0	2.0	Natural*
Boron	mg/L	83	8.5	5.5	5.5	6.4	12	19	30	4.6
Calcium	mg/L	34	2.5	13	390	700	5,100	7,900	12,000	59
Chloride	mg/L	63	210	63	69	69	44	57	<100	69
Fluoride	mg/L	<5.0	<10	0.42	<0.50	<0.50	<2.5	<10	<10	<0.10
ORP	millivolts	-20	-19	160	260	270	240	370	630	190
pH	SU	12.9	12.4	10.0	7.8	7.4	5.6	3.8	2.3	8.8
Spec Cond	umhos/cm	45,000	12,000	1,100	3,300	5,200	25,000	43,000	69,000	930
Sulfate	mg/L	300	1,100	240	270	280	380	290	440	310
TDS	mg/L	14,000	4,300	670	2,600	4,200	26,000	51,000	82,000	590

AP 3S ASH PARAMETER	UNITS	LEAF TEST TARGETED pH VALUES								
		13.0	12.0	10.5	8.0	7.0	5.5	4.0	2.0	Natural*
Boron	mg/L	6.3	5.5	3.9	5.2	6.8	11	18	33	3.3
Calcium	mg/L	4.7	3.6	37	730	1,600	3,900	7,300	12,000	95
Chloride	mg/L	<50	12	13	15	16	<25	<50	<100	15
Fluoride	mg/L	<5.0	1.0	0.47	<0.50	<0.50	<2.5	11	<10	0.31
ORP	millivolts	-59	30	150	270	290	180	370	620	180
pH	SU	12.7	11.9	10.2	7.5	7.0	6.0	3.8	2.3	9.3
Spec Cond	umhos/cm	45,000	3,200	1,100	5,100	8,900	20,000	43,000	71,000	870
Sulfate	mg/L	380	340	330	400	<2.5	480	400	620	390
TDS	mg/L	14,000	1,500	670	4,300	7,500	19,000	50,000	83,000	610

Notes: Units are as noted.

ORP - Oxidation Reduction Potential

Spec Cond - Specific Conductivity

TDS - Total Dissolved Solids

Natural* - pH of ash as measured in the laboratory prior to any pH test modifications.

ATTACHMENT 1
CCR Detection Monitoring Data Tables – January 31, 2022

Table 4. Semi-Annual Detection Monitoring Statistical Comparisons - Appendix III Groundwater Analytical Results and Confirmatory Resampling - Midwest Generation, LLC, Will County Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-05 up-gradient	11/11/2015	6.1	220	110	0.31	7.24	770	1,900
	2/18/2016	4.4	230	120	0.31	6.99	730	1,600
	5/26/2016	3.7	170	110	0.33	6.73	670	1,500
	8/10/2016	3.6	67	120	0.72	8.62	480	970
	10/26/2016	3.6	44	120	0.70	9.08	410	920
	2/1/2017	4.6	250	48	0.35	6.81	530	1,600
	5/11/2017	4.0	140	85	0.31	7.86	610	1,200
	6/27/2017	3.8	83	99	0.53	7.95	500	1,000
	Pred. Limit*	6.65	359	148	0.72	9.93-5.39	923	2,286
	9/8/2017	4.8	89	78	0.52	9.40	490	1,000
	11/16/2017	4.8	180	52	0.45	6.70	650	1,500
	5/2/2018	3.6	200	32	0.39	7.23	510	1,300
	10/3/2018	4.9	150	55	0.48	7.07	430	1,200
	5/29/2019	4.1	61	91	0.59	9.10	380	870
	12/6/2019	4.9	170	31	0.41	6.95	440	1,200
	5/22/2020	4.5	52	70	0.59	7.39	300	870
	11/4/2020	5	130	29	0.38	7.06	410	1,100
5/24/2021	4.7	120	28	0.53	7.07	430	1,000	
11/23/2021	5.5	140	22	0.44	6.80	370	1,100	
MW-06 up-gradient	11/10/2015	3.0	52	100	0.55	8.63	300	660
	2/18/2016	2.5	74	150	0.47	8.58	280	650
	5/26/2016	2.7	86	92	0.44	7.79	350	800
	8/11/2016	3.6	110	58	0.35	7.74	330	840
	10/26/2016	3.8	86	74	0.40	8.16	220	800
	2/1/2017	3.4	70	83	0.41	7.88	260	700
	5/11/2017	3.0	75	84	0.28	8.68	330	570
	6/27/2017	3.1	65	74	0.38	8.15	330	710
	Pred. Limit*	4.29	122	162	0.62	9.21-7.19	415	956
	9/7/2017	3.5	75	67	0.40	8.20	300	740
	11/16/2017	3.9	88	54	0.39	7.59	280	810
	5/3/2018	3	91	52	0.26	6.91	530	750
	7/25/2018 R	NA	NA	NA	NA	7.47	280	NA
	10/3/2018	3.5	93	44	0.31	7.83	240	720
	5/29/2019	4.3	120	38	0.21	7.51	350	1,000
	7/3/2019 R	3.2	NA	NA	NA	NA	NA	740
	12/6/2019	4.2	98	31	0.33	7.91	210	740
5/22/2020	3.4	98	56	0.31	7.47	180	710	
11/3/2020	3.3	100	43	0.36	7.29	170	700	
5/24/2021	2.6	99	46	0.33	7.65	160	610	
11/23/2021	2.6	85	43	0.37	7.48	150	720	
MW-09 down-gradient	11/11/2015	1.9	56	190	0.55	9.12	460	750
	2/17/2016	1.8	47	160	0.55	9.10	250	600
	5/24/2016	1.6	48	180	0.51	8.79	240	640
	8/9/2016	2.2	53	140	0.48	8.35	280	750
	10/26/2016	2.2	33	130	0.81	9.16	230	660
	1/31/2017	2.0	61	250	0.57	8.59	180	710
	5/9/2017	1.8	66	340	0.38	8.58	250	900
	6/27/2017	1.9	64	330	0.51	7.76	240	940
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950
	Pred. Limit*	NC	NC	431.2	0.87	NC	NC	1,060
	9/6/2017	1.8	59	310	0.51	8.98	240	890
	11/14/2017	2.6	160	270	0.51	8.1	290	910
	5/1/2018	1.7	49	200	0.52	7.81	430	820
	7/25/2018 R	NA	NA	NA	NA	NA	320	NA
	10/2/2018	2.1	49	170	0.55	8.09	270	820
	5/29/2019	1.5	48	280	0.29	8.90	150	750
	12/6/2019	2.0	38	140	0.46	8.65	160	630
5/26/2020	1.3	55	320	0.32	8.66	140	720	
11/3/2020	2.0	43	240	0.55	8.64	180	750	
5/26/2021	1.6	67	360	0.39	8.74	180	900	
11/23/2021	1.1	30	290	0.47	8.73	210	900	

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

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

** - Based on pooled background from MW-5/MW-6. All others based on MW-6 as background.

Italics Date - First round of Detection Monitoring and resample after statistical background establishment.

NC - Not calculated.

BOLD - Potential statistically significant increase relative to interwell Prediction Limit.

BOLD - Potential statistically significant increase relative to intrawell Prediction Limit.

BOLD - Above both interwell and intrawell Prediction Limits

NA - Not analyzed. No confirmation resample required.

R - Resample

F1 - MS and/or MSD Recovery outside of limits.

Table 4. Semi-Annual Detection Monitoring Statistical Comparisons - Appendix III Groundwater Analytical Results and Confirmatory Resampling - Midwest Generation, LLC, Will County Station, Romeoville, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	
MW-10 down-gradient	11/10/2015	3.9	140	140	0.77	7.34	310	980	
	2/16/2016	3.6	150	240	0.79	7.29	290	950	
	5/25/2016	3.6	120	140	0.83	7.26	260	1,000	
	8/10/2016	4.3	150	120	0.78	7.22	230	970	
	10/26/2016	3.0	160	74	0.52	7.30	220	1,000	
	2/2/2017	3.7	180	81	0.54	7.16	160	930	
	5/10/2017	3.0	150	100	0.44	7.83	340	860	
	6/27/2017	2.8	130	110	0.67	7.49	250	930	
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950	
	Pred. Limit*	NC	NC	262.2	1.06	NC	NC	1,074	
	9/7/2017	2.8	120	120	0.77	7.37	290	920	
	11/15/2017	4.1	140	120	0.77	7.10	270	1,000	
	5/1/2018	3.2	150	130	0.65	7.31	280	990	
	10/3/2018	2.5	110	140	0.89	7.60	200	860	
	5/29/2019	2.8	100	140	0.82	7.53	260	860	
	12/5/2019	3.7	120	110	0.93	7.21	190	940	
	5/27/2020	2.3	100	170	0.90	7.29	280	850	
	11/3/2020	3.7	130	140	0.87	7.02	180	920	
5/25/2021	3.0	160	130	0.62	7.16	160	910		
11/23/2021	2.7	110	130	0.71	7.07	230	990		
MW-11 down-gradient	11/10/2015	2.6	120	89	0.61	7.60	180	620	
	2/16/2016	3.0	100	88	0.68	7.47	170	640	
	5/25/2016	2.8	82	98	0.75	7.43	170	640	
	8/10/2016	3.1	96	86	0.72	7.57	150	660	
	10/26/2016	2.5	110	67	0.53	7.82	120	630	
	2/1/2017	3.9	110	72	0.65	7.54	110	600	
	5/10/2017	3.1	95	84	0.46	8.37	170	590	
	6/27/2017	2.8	87	90	0.59	7.57	150	680	
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950	
	Pred. Limit*	NC	NC	110.6	0.88	NC	NC	710	
	9/7/2017	2.8	90	94	0.58	7.40	150	730	
	11/15/2017	2.9	96	100	0.65	7.41	160	750	
	5/3/2018	3.8	73	110	0.69	6.74	190	670	
	10/3/2018	3.1	78	110	0.66	7.65	120	680	
	5/29/2019	2.2	86	110	0.49	7.55	120	610	
	12/5/2019	2.5	100	80	0.55	7.26	91	600	
	5/26/2020	2.3	89	100	0.54	7.4	90	540	
	11/3/2020	4.3	85	140	0.72	7.17	68	710	
5/25/2021	3.8	94	130	0.74	7.68	57	660		
11/23/2021	2.0	130	150	0.48	6.94	94	810		
12/22/2021 R	NA	NA	150	NA	7.03	NA	NA		
MW-12 down-gradient	11/10/2015	2.3	150	160	0.59	7.44	290	1,000	
	2/16/2016	1.8	130	140	0.52	7.38	220	850	
	5/25/2016	1.9	130	150	0.54	7.23	250	890	
	8/10/2016	2.4	170	140	0.49	7.20	280	1,000	
	10/26/2016	2.6	140	120	0.49	7.44	220	980	
	2/1/2017	2.0	160	120	0.48	7.30	150	900	
	5/10/2017	2.3	200	240	0.30	7.65	260	1,300	
	6/27/2017	2.4	180	280	0.44	7.31	260	1,300	
	Pred. Limit	4.26	275**	149**	0.72**	9.39-6.48**	413	950	
	Pred. Limit*	NC	NC	338.8	0.71	NC	NC	1,519	
	9/6/2017	2.6	190	270	0.49	7.26	260	1,400	
	11/15/2017	1.7	55	200	0.47	6.90	250	1,200	
	5/3/2018	1.8	140	170	0.47	6.60	170	960	
	10/2/2018	F1	2.2	150	160	0.49	7.30	170	1,100
	5/29/2019	1.9	140	140	0.42	7.23	190	930	
	12/5/2019	2.1	140	71	0.53	7.02	110	820	
	5/22/2020	1.9	180	120	0.4	6.95	140	1,100	
	11/3/2020	2.2	160	190	0.52	7.27	160	1,000	
5/25/2021	1.8	140	170	0.49	7.37	180	930		
11/23/2021	2.3	180	210	0.44	7.01	180	1,200		

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

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

** - Based on pooled background from MW-5/MW-6. All others based on MW-6 as background.

Italics Date - First round of Detection Monitoring and resample after statistical background establishment.

NC - Not calculated.

BOLD - Potential statistically significant increase relative to interwell Prediction Limit.

BOLD - Potential statistically significant increase relative to intrawell Prediction Limit.

BOLD - Above both interwell and intrawell Prediction Limits

NA - Not analyzed. No confirmation resample required.

R - Resample

F1 - MS and/or MSD Recovery outside of limits.

ATTACHMENT 2
Analytical Data Packages

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-139618-1
Client Project/Site: Will County CCR

For:
KPRG and Associates, Inc.
14665 West Lisbon Road,
Suite 2B
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:
1/26/2018 2:20:29 PM
Richard Wright, Senior Project Manager
richard.wright@testamericainc.com

Designee for
Eric Lang, Manager of Project Management
(708)534-5200
eric.lang@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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Visit us at:
www.testamericainc.com

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

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

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Case Narrative

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

TestAmerica Job ID: 500-139618-1

Job ID: 500-139618-1

Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-139618-1**

Comments

No additional comments.

Receipt

The sample was received on 1/12/2018 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

Metals

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

General Chemistry

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

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Method Summary

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

TestAmerica Job ID: 500-139618-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL CHI
9040C	pH	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

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

Sample Summary

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

TestAmerica Job ID: 500-139618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-139618-1	AP 3-S	Water	01/10/18 09:55	01/12/18 09:40

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Client Sample Results

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

TestAmerica Job ID: 500-139618-1

Client Sample ID: AP 3-S
Date Collected: 01/10/18 09:55
Date Received: 01/12/18 09:40

Lab Sample ID: 500-139618-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.18		0.050		mg/L		01/12/18 14:46	01/15/18 13:05	1
Calcium	56		0.20		mg/L		01/12/18 14:46	01/15/18 13:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8	HF	0.2		SU			01/12/18 15:56	1
Total Dissolved Solids	540		10		mg/L			01/14/18 23:49	1
Chloride	140		10		mg/L			01/15/18 00:54	5
Fluoride	0.52		0.10		mg/L			01/25/18 11:25	1
Sulfate	100		25		mg/L			01/16/18 04:24	5



Definitions/Glossary

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

TestAmerica Job ID: 500-139618-1

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.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

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

TestAmerica Job ID: 500-139618-1

Metals

Prep Batch: 416709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-139618-1	AP 3-S	Total Recoverable	Water	3005A	
MB 500-416709/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-416709/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-139618-1 MS	AP 3-S	Total Recoverable	Water	3005A	
500-139618-1 MSD	AP 3-S	Total Recoverable	Water	3005A	
500-139618-1 DU	AP 3-S	Total Recoverable	Water	3005A	

Analysis Batch: 416965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-139618-1	AP 3-S	Total Recoverable	Water	6020A	416709
MB 500-416709/1-A	Method Blank	Total Recoverable	Water	6020A	416709
LCS 500-416709/2-A	Lab Control Sample	Total Recoverable	Water	6020A	416709
500-139618-1 MS	AP 3-S	Total Recoverable	Water	6020A	416709
500-139618-1 MSD	AP 3-S	Total Recoverable	Water	6020A	416709
500-139618-1 DU	AP 3-S	Total Recoverable	Water	6020A	416709

General Chemistry

Analysis Batch: 416763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-139618-1	AP 3-S	Total/NA	Water	SM 2540C	
MB 500-416763/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-416763/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 416921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-139618-1	AP 3-S	Total/NA	Water	SM 4500 Cl- E	
MB 500-416921/4	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-416921/37	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 416927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-139618-1	AP 3-S	Total/NA	Water	SM 4500 SO4 E	
MB 500-416927/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-416927/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 416975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-139618-1	AP 3-S	Total/NA	Water	9040C	
500-139618-1 DU	AP 3-S	Total/NA	Water	9040C	

Analysis Batch: 418006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-139618-1	AP 3-S	Total/NA	Water	SM 4500 F C	
MB 500-418006/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-418006/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-139618-1 MS	AP 3-S	Total/NA	Water	SM 4500 F C	
500-139618-1 MSD	AP 3-S	Total/NA	Water	SM 4500 F C	

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-139618-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-416709/1-A
Matrix: Water
Analysis Batch: 416965

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 416709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		01/12/18 14:46	01/15/18 12:57	1
Calcium	<0.20		0.20		mg/L		01/12/18 14:46	01/15/18 12:57	1

Lab Sample ID: LCS 500-416709/2-A
Matrix: Water
Analysis Batch: 416965

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 416709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.988		mg/L		99	80 - 120
Calcium	10.0	9.54		mg/L		95	80 - 120

Lab Sample ID: 500-139618-1 MS
Matrix: Water
Analysis Batch: 416965

Client Sample ID: AP 3-S
Prep Type: Total Recoverable
Prep Batch: 416709

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	0.18		1.00	1.19		mg/L		101	75 - 125
Calcium	56		10.0	65.5	4	mg/L		93	75 - 125

Lab Sample ID: 500-139618-1 MSD
Matrix: Water
Analysis Batch: 416965

Client Sample ID: AP 3-S
Prep Type: Total Recoverable
Prep Batch: 416709

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	0.18		1.00	1.18		mg/L		100	75 - 125	2	20
Calcium	56		10.0	64.3	4	mg/L		81	75 - 125	2	20

Lab Sample ID: 500-139618-1 DU
Matrix: Water
Analysis Batch: 416965

Client Sample ID: AP 3-S
Prep Type: Total Recoverable
Prep Batch: 416709

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	0.18		0.174		mg/L		4	20
Calcium	56		56.5		mg/L		0.4	20

Method: 9040C - pH

Lab Sample ID: 500-139618-1 DU
Matrix: Water
Analysis Batch: 416975

Client Sample ID: AP 3-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.8	HF	7.8		SU		0.3	

QC Sample Results

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

TestAmerica Job ID: 500-139618-1

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

Lab Sample ID: MB 500-416763/1
Matrix: Water
Analysis Batch: 416763

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			01/14/18 22:56	1

Lab Sample ID: LCS 500-416763/2
Matrix: Water
Analysis Batch: 416763

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	278		mg/L		111	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-416921/4
Matrix: Water
Analysis Batch: 416921

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			01/15/18 00:10	1

Lab Sample ID: LCS 500-416921/37
Matrix: Water
Analysis Batch: 416921

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.5		mg/L		105	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-418006/3
Matrix: Water
Analysis Batch: 418006

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			01/25/18 11:20	1

Lab Sample ID: LCS 500-418006/4
Matrix: Water
Analysis Batch: 418006

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.1		mg/L		101	80 - 120

Lab Sample ID: 500-139618-1 MS
Matrix: Water
Analysis Batch: 418006

Client Sample ID: AP 3-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.52		5.00	5.51		mg/L		100	75 - 125

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-139618-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-139618-1 MSD
Matrix: Water
Analysis Batch: 418006

Client Sample ID: AP 3-S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.52		5.00	5.46		mg/L		99	75 - 125	1	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-416927/3
Matrix: Water
Analysis Batch: 416927

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			01/16/18 04:04	1

Lab Sample ID: LCS 500-416927/4
Matrix: Water
Analysis Batch: 416927

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	19.4		mg/L		97	80 - 120

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 E-Mail: _____

Bill To (optional)
 Contact: _____
 Company: _____
 Address: _____
 Address: _____
 Phone: _____
 Fax: _____
 PO#/Reference# _____


Chain of Custody Record

Lab Job #: 500-139618

Chain of Custody Number: _____

Page _____ of _____

Temperature °C of Cooler: 4.3

Client		Client Project #		Preservative		Parameter		Project Location/State		Lab Project #		 500-139618 COC	Preservative Key	
KPRG & ASSOC.		23517		3 8				IL					1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other	
Project Name		Project Location/State		Project Location/State		Project Location/State		Project Location/State		Project Location/State				
NRG		IL		IL		IL		IL		IL				
Sampler		Lab PM		Lab PM		Lab PM		Lab PM		Lab PM				
LR/MW														
Lab ID	MS/MSD	Sample ID		Sampling		# of Containers	Matrix							
		Date	Time											
1		AP 3-5	1/10/18	0955	2	W	X	X	B, Ca Ca, Fe, Pb, SO4, TDS					

Turnaround Time Required (Business Days)
 ___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Sample Disposal
 Return to Client Disposal by Lab Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Requested Due Date _____

Relinquished By: <u>[Signature]</u> Company: <u>KPRG</u> Date: <u>1/11/18</u> Time: <u>1630</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1-11-18</u> Time: <u>1700</u>	Lab Courier: _____
Relinquished By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>1-11-18</u> Time: <u>1700</u>	Received By: <u>[Signature]</u> Company: <u>TA</u> Date: <u>01/12/18</u> Time: <u>0940</u>	Shipped: <u>FX Priority</u>
Relinquished By: _____ Company: _____ Date: _____ Time: _____	Received By: _____ Company: _____ Date: _____ Time: _____	Hand Delivered: _____

Matrix Key

WW - Wastewater	SE - Sediment
W - Water	SO - Soil
S - Soil	L - Leachate
SL - Sludge	WI - Wipe
MS - Miscellaneous	DW - Drinking Water
OL - Oil	O - Other
A - Air	

Client Comments: _____

Lab Comments: _____

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-139618-1

Login Number: 139618

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

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

TestAmerica Job ID: 500-139618-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-74122-1

Client Project/Site: Midwest Generation

For:

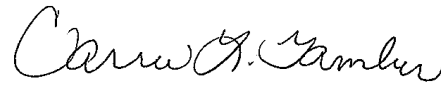
KPRG and Associates, Inc.

14665 West Lisbon Road,

Suite 2B

Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:

2/28/2018 5:01:06 PM

Carrie Gamber, Senior Project Manager

(412)963-2428

carrie.gamber@testamericainc.com

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www.testamericainc.com

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

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

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QC Association Summary	43
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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Job ID: 180-74122-1

Laboratory: TestAmerica Pittsburgh

Narrative

CASE NARRATIVE

Client: KPRG and Associates, Inc.

Project: Midwest Generation

Report Number: 180-74122-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 01/12/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.8 C.

IC

Several samples were diluted due to the nature of the sample matrix. Elevated reporting limits (RLs) were provided. Dilutions were based on conductivity pre-screen of samples.

METALS

Several samples were diluted due to the nature of the sample matrix. Elevated reporting limits (RLs) are provided.

GENERAL CHEMISTRY

Due to the matrix, the initial volumes used for several samples deviated from the standard procedure for TDS.

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	200005	06-30-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
SM 2510B		Solid	Specific Conductance
SM 2540C		Solid	Total Dissolved Solids

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
SM 2580B		Solid	Oxidation Reduction Potential

Sample Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-74122-1	AP 3-S - PRETEST	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-2	AP 3-S - PH 13.0	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-3	AP 3-S - PH 12.0	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-4	AP 3-S - PH 10.5	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-6	AP 3-S - PH 8.0	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-7	AP 3-S - PH 7.0	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-8	AP 3-S - PH 5.5	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-9	AP 3-S - PH 4.0	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-10	AP 3-S - PH 2.0	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-11	AP 3-S - NATURAL	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-12	AP 2-S - PRETEST	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-13	AP 2-S - PH 13.0	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-14	AP 2-S - PH 12.0	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-15	AP 2-S - PH 10.5	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-17	AP 2-S - PH 8.0	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-18	AP 2-S - PH 7.0	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-19	AP 2-S - PH 5.5	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-20	AP 2-S - PH 4.0	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-21	AP 2-S - PH 2.0	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-22	AP 2-S - NATURAL	Solid	01/10/18 10:50	01/12/18 09:10
180-74122-23	AP 3-S - AIR DIED	Solid	01/10/18 10:20	01/12/18 09:10
180-74122-24	AP 2-S - AIR DRIED	Solid	01/10/18 10:50	01/12/18 09:10

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Method	Method Description	Protocol	Laboratory
EPA 9056A	Anions, Ion Chromatography	SW846	TAL PIT
EPA 6020A	Metals (ICP/MS)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT
EPA 9040C	pH	SW846	TAL PIT
SM 2510B	Conductivity, Specific Conductance	SM	TAL PIT
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL PIT
SM 2580B	Reduction-Oxidation (REDOX) Potential	SM	TAL PIT

Protocol References:

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

SM22 = SM22

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PRETEST

Lab Sample ID: 180-74122-1

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			234952	01/24/18 06:29	CLL	TAL PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			236465	02/07/18 11:36	MTW	TAL PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1313			40.5 g	950 mL	237107	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:21	MTW	TAL PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1313			40.5 g	950 mL	237107	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:24	MTW	TAL PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1313			40.5 g	950 mL	237107	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:27	MTW	TAL PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1313			40.5 g	950 mL	237107	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:33	MTW	TAL PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1313			40.5 g	400 mL	237733	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237737	02/16/18 13:05	MTW	TAL PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1313			40.5 g	400 mL	237733	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237737	02/16/18 13:10	MTW	TAL PIT
	Instrument ID: NOEQUIP									

Client Sample ID: AP 3-S - PH 13.0

Lab Sample ID: 180-74122-2

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		50			236377	02/08/18 20:09	MJH	TAL PIT
	Instrument ID: CHIC2100A									
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236440	02/08/18 11:28	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			236729	02/10/18 00:33	WTR	TAL PIT
	Instrument ID: A									
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236440	02/08/18 11:28	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			236828	02/13/18 03:33	WTR	TAL PIT
	Instrument ID: M									
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			236465	02/07/18 11:43	MTW	TAL PIT
	Instrument ID: NOEQUIP									
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PH 13.0

Lab Sample ID: 180-74122-2

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Analysis	SM 2510B		1			236475	02/07/18 11:25	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	3 mL	100 mL	237078	02/15/18 14:59	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			236472	02/07/18 11:21	MTW	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: AP 3-S - PH 12.0

Lab Sample ID: 180-74122-3

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A		5			237859	02/26/18 16:14	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.5 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A		50			237859	02/26/18 16:30	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.5 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237311	02/19/18 13:03	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			237590	02/21/18 01:14	WTR	TAL PIT
		Instrument ID: A								
Leach	Leach	1313			40.5 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237311	02/19/18 13:03	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			237713	02/22/18 04:21	WTR	TAL PIT
		Instrument ID: M								
Leach	Leach	1313			40.5 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237737	02/16/18 12:54	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237752	02/16/18 12:48	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	25 mL	100 mL	237329	02/19/18 15:41	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237751	02/16/18 12:53	MTW	TAL PIT
		Instrument ID: NOEQUIP								

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PH 10.5

Lab Sample ID: 180-74122-4

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A		1	1 mL	1.0 mL	237598	02/22/18 12:20	MJH	TAL PIT
Instrument ID: CHICS2000										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A		10	1 mL	1.0 mL	237598	02/22/18 12:35	MJH	TAL PIT
Instrument ID: CHICS2000										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237537	02/21/18 11:22	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			237821	02/23/18 11:40	RSK	TAL PIT
Instrument ID: A										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237537	02/21/18 11:22	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			238052	02/26/18 21:29	WTR	TAL PIT
Instrument ID: M										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237531	02/19/18 10:12	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237553	02/19/18 10:18	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	100 mL	100 mL	237940	02/26/18 14:33	KXW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237550	02/19/18 10:13	MTW	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: AP 3-S - PH 8.0

Lab Sample ID: 180-74122-6

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		2.5			236732	02/13/18 11:30	MJH	TAL PIT
Instrument ID: CHIC2100A										
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		5			236891	02/14/18 14:33	MJH	TAL PIT
Instrument ID: CHICS2000										
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236807	02/13/18 13:38	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			237198	02/15/18 22:34	WTR	TAL PIT
Instrument ID: M										
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:39	MTW	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PH 8.0

Lab Sample ID: 180-74122-6

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2510B Instrument ID: NOEQUIP		1			237425	02/12/18 14:19	MTW	TAL PIT
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2540C Instrument ID: NOEQUIP		1	25 mL	100 mL	237078	02/15/18 14:59	KXW	TAL PIT
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2580B Instrument ID: NOEQUIP		1			237422	02/12/18 14:17	MTW	TAL PIT

Client Sample ID: AP 3-S - PH 7.0

Lab Sample ID: 180-74122-7

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A Instrument ID: CHIC2100A		2.5			236732	02/13/18 12:00	MJH	TAL PIT
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A Instrument ID: CHICS2000		5			236891	02/14/18 14:49	MJH	TAL PIT
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236807	02/13/18 13:38	KA	TAL PIT
Leach	Analysis	EPA 6020A Instrument ID: M		10			237323	02/16/18 20:33	WTR	TAL PIT
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C Instrument ID: NOEQUIP		1			237380	02/12/18 14:36	MTW	TAL PIT
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2510B Instrument ID: NOEQUIP		1			237425	02/12/18 14:14	MTW	TAL PIT
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2540C Instrument ID: NOEQUIP		1	25 mL	100 mL	237078	02/15/18 14:59	KXW	TAL PIT
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2580B Instrument ID: NOEQUIP		1			237422	02/12/18 14:10	MTW	TAL PIT

Client Sample ID: AP 3-S - PH 5.5

Lab Sample ID: 180-74122-8

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PH 5.5

Lab Sample ID: 180-74122-8

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Analysis	EPA 9056A		25			237859	02/26/18 08:57	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.5 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237767	02/23/18 12:01	KA	TAL PIT
Leach	Analysis	EPA 6020A		10			238052	02/27/18 09:59	WTR	TAL PIT
		Instrument ID: M								
Leach	Leach	1313			40.5 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237772	02/23/18 10:12	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237776	02/23/18 10:12	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	5 mL	100 mL	238055	02/27/18 15:07	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237774	02/23/18 10:12	MTW	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: AP 3-S - PH 4.0

Lab Sample ID: 180-74122-9

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		50			236732	02/13/18 13:32	MJH	TAL PIT
		Instrument ID: CHIC2100A								
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		100			236891	02/14/18 15:04	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236807	02/13/18 13:38	KA	TAL PIT
Leach	Analysis	EPA 6020A		10			237323	02/16/18 20:29	WTR	TAL PIT
		Instrument ID: M								
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:18	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237425	02/12/18 13:58	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	3 mL	100 mL	237078	02/15/18 14:59	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.5 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PH 4.0

Lab Sample ID: 180-74122-9

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Analysis	SM 2580B		1			237422	02/12/18 13:57	MTW	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: AP 3-S - PH 2.0

Lab Sample ID: 180-74122-10

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A		100	1 mL	1.0 mL	237598	02/22/18 11:16	MJH	TAL PIT
Instrument ID: CHICS2000										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			5 mL	50 mL	237767	02/23/18 12:01	KA	TAL PIT
Leach	Analysis	EPA 6020A		10			237942	02/24/18 17:13	WTR	TAL PIT
Instrument ID: A										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			5 mL	50 mL	237767	02/23/18 12:01	KA	TAL PIT
Leach	Analysis	EPA 6020A		10			238052	02/27/18 09:46	WTR	TAL PIT
Instrument ID: M										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237531	02/19/18 10:38	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237553	02/19/18 10:36	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	2 mL	100 mL	237940	02/26/18 14:33	KXW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237550	02/19/18 10:34	MTW	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: AP 3-S - NATURAL

Lab Sample ID: 180-74122-11

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		1			236373	02/08/18 10:43	MJH	TAL PIT
Instrument ID: CHICS2100B										
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		5			236373	02/08/18 10:59	MJH	TAL PIT
Instrument ID: CHICS2100B										
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - NATURAL

Lab Sample ID: 180-74122-11

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Prep	3010A			50 mL	50 mL	236437	02/08/18 11:22	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			236729	02/09/18 23:06	WTR	TAL PIT
Instrument ID: A										
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236437	02/08/18 11:22	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			236828	02/13/18 01:06	WTR	TAL PIT
Instrument ID: M										
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			236465	02/07/18 14:13	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			236475	02/07/18 14:38	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	100 mL	100 mL	236785	02/13/18 10:45	KXW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.5 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			236472	02/07/18 14:38	MTW	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: AP 2-S - PRETEST

Lab Sample ID: 180-74122-12

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			234952	01/24/18 06:29	CLL	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			236465	02/07/18 11:49	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.9 g	950 mL	237107	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:43	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.9 g	950 mL	237107	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:46	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.9 g	950 mL	237107	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 15:01	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.9 g	400 mL	237733	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237737	02/16/18 13:16	MTW	TAL PIT
Instrument ID: NOEQUIP										

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	237733	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237737	02/16/18 13:27	MTW	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: AP 2-S - PH 13.0
Date Collected: 01/10/18 10:50
Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		50			236377	02/08/18 20:40	MJH	TAL PIT
Instrument ID: CHIC2100A										
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Prep	3010A			5 mL	50 mL	236440	02/08/18 11:28	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			236729	02/10/18 00:36	WTR	TAL PIT
Instrument ID: A										
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Prep	3010A			5 mL	50 mL	236440	02/08/18 11:28	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			236828	02/13/18 03:38	WTR	TAL PIT
Instrument ID: M										
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			236465	02/07/18 11:30	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			236475	02/07/18 11:10	MTW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	3 mL	100 mL	236788	02/13/18 11:04	KXW	TAL PIT
Instrument ID: NOEQUIP										
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			236472	02/07/18 11:08	MTW	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: AP 2-S - PH 12.0
Date Collected: 01/10/18 10:50
Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A		100			237859	02/26/18 13:03	MJH	TAL PIT
Instrument ID: CHICS2000										
Leach	Leach	1313			40.9 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237311	02/19/18 13:03	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			237590	02/21/18 01:17	WTR	TAL PIT
Instrument ID: A										
Leach	Leach	1313			40.9 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237311	02/19/18 13:03	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			237713	02/22/18 04:26	WTR	TAL PIT
Instrument ID: M										

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - PH 12.0

Lab Sample ID: 180-74122-14

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C Instrument ID: NOEQUIP		1			237737	02/16/18 13:21	MTW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	SM 2510B Instrument ID: NOEQUIP		1			237752	02/16/18 13:09	MTW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	SM 2540C Instrument ID: NOEQUIP		1	10 mL	100 mL	237329	02/19/18 15:41	KXW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237165	02/14/18 08:00	LWM	TAL PIT
Leach	Analysis	SM 2580B Instrument ID: NOEQUIP		1			237751	02/16/18 13:09	MTW	TAL PIT

Client Sample ID: AP 2-S - PH 10.5

Lab Sample ID: 180-74122-15

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A Instrument ID: CHICS2000		1	1 mL	1.0 mL	237598	02/22/18 12:51	MJH	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A Instrument ID: CHICS2000		10	1 mL	1.0 mL	237598	02/22/18 13:07	MJH	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237537	02/21/18 11:22	KA	TAL PIT
Leach	Analysis	EPA 6020A Instrument ID: A		1			237821	02/23/18 11:43	RSK	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237537	02/21/18 11:22	KA	TAL PIT
Leach	Analysis	EPA 6020A Instrument ID: M		1			238052	02/26/18 21:33	WTR	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C Instrument ID: NOEQUIP		1			237531	02/19/18 10:19	MTW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2510B Instrument ID: NOEQUIP		1			237553	02/19/18 10:24	MTW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	237940	02/26/18 14:33	KXW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2580B Instrument ID: NOEQUIP		1			237550	02/19/18 10:20	MTW	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - PH 8.0

Lab Sample ID: 180-74122-17

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		2.5			236732	02/13/18 14:03	MJH	TAL PIT
		Instrument ID: CHIC2100A								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		5			236891	02/14/18 15:20	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236807	02/13/18 13:38	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			237198	02/15/18 23:01	WTR	TAL PIT
		Instrument ID: M								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:55	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237425	02/12/18 14:35	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	50 mL	100 mL	237078	02/15/18 14:59	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237422	02/12/18 14:36	MTW	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: AP 2-S - PH 7.0

Lab Sample ID: 180-74122-18

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		2.5			236732	02/13/18 14:34	MJH	TAL PIT
		Instrument ID: CHIC2100A								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		5			236891	02/14/18 15:36	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236807	02/13/18 13:38	KA	TAL PIT
Leach	Analysis	EPA 6020A		1			237198	02/15/18 22:39	WTR	TAL PIT
		Instrument ID: M								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:49	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237425	02/12/18 14:24	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - PH 7.0

Lab Sample ID: 180-74122-18

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Analysis	SM 2540C		1	25 mL	100 mL	237078	02/15/18 14:59	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237422	02/12/18 14:23	MTW	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: AP 2-S - PH 5.5

Lab Sample ID: 180-74122-19

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A		25			237859	02/26/18 09:13	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.9 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	237767	02/23/18 12:01	KA	TAL PIT
Leach	Analysis	EPA 6020A		10			238052	02/27/18 10:17	WTR	TAL PIT
		Instrument ID: M								
Leach	Leach	1313			40.9 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237772	02/23/18 10:18	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237776	02/23/18 10:17	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	5 mL	100 mL	238055	02/27/18 15:07	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	237761	02/21/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237774	02/23/18 10:18	MTW	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: AP 2-S - PH 4.0

Lab Sample ID: 180-74122-20

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		50			236732	02/13/18 16:40	MJH	TAL PIT
		Instrument ID: CHIC2100A								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A		100			236891	02/14/18 15:52	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236807	02/13/18 13:38	KA	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - PH 4.0

Lab Sample ID: 180-74122-20

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Analysis	EPA 6020A		10			237323	02/16/18 20:38	WTR	TAL PIT
		Instrument ID: M								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237380	02/12/18 14:52	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237425	02/12/18 14:29	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	3 mL	100 mL	237078	02/15/18 14:59	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	236722	02/10/18 08:30	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237422	02/12/18 14:29	MTW	TAL PIT
		Instrument ID: NOEQUIP								

Client Sample ID: AP 2-S - PH 2.0

Lab Sample ID: 180-74122-21

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9056A		100	1 mL	1.0 mL	237598	02/22/18 11:48	MJH	TAL PIT
		Instrument ID: CHICS2000								
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			5 mL	50 mL	237767	02/23/18 12:01	KA	TAL PIT
Leach	Analysis	EPA 6020A		10			237942	02/24/18 17:16	WTR	TAL PIT
		Instrument ID: A								
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Prep	3010A			5 mL	50 mL	237767	02/23/18 12:01	KA	TAL PIT
Leach	Analysis	EPA 6020A		10			238052	02/27/18 09:50	WTR	TAL PIT
		Instrument ID: M								
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	EPA 9040C		1			237531	02/19/18 10:44	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2510B		1			237553	02/19/18 10:42	MTW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2540C		1	2 mL	100 mL	237940	02/26/18 14:33	KXW	TAL PIT
		Instrument ID: NOEQUIP								
Leach	Leach	1313			40.9 g	400 mL	237381	02/17/18 10:00	LWM	TAL PIT
Leach	Analysis	SM 2580B		1			237550	02/19/18 10:40	MTW	TAL PIT
		Instrument ID: NOEQUIP								

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - NATURAL

Lab Sample ID: 180-74122-22

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A Instrument ID: CHICS2100B		1			236373	02/08/18 11:15	MJH	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9056A Instrument ID: CHICS2100B		5			236373	02/08/18 11:31	MJH	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236437	02/08/18 11:22	KA	TAL PIT
Leach	Analysis	EPA 6020A Instrument ID: A		1			236729	02/09/18 23:09	WTR	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Prep	3010A			50 mL	50 mL	236437	02/08/18 11:22	KA	TAL PIT
Leach	Analysis	EPA 6020A Instrument ID: M		1			236828	02/13/18 01:11	WTR	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	EPA 9040C Instrument ID: NOEQUIP		1			236465	02/07/18 14:16	MTW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2510B Instrument ID: NOEQUIP		1			236475	02/07/18 14:41	MTW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	236785	02/13/18 10:45	KXW	TAL PIT
Leach	Leach	1313			40.9 g	400 mL	236165	02/05/18 11:30	LWM	TAL PIT
Leach	Analysis	SM 2580B Instrument ID: NOEQUIP		1			236472	02/07/18 14:43	MTW	TAL PIT

Client Sample ID: AP 3-S - AIR DIED

Lab Sample ID: 180-74122-23

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G Instrument ID: NOEQUIP		1			235859	02/02/18 11:37	SES	TAL PIT

Client Sample ID: AP 2-S - AIR DRIED

Lab Sample ID: 180-74122-24

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G Instrument ID: NOEQUIP		1			235859	02/02/18 11:37	SES	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Leach

LWM = Larry Matko

Batch Type: Prep

KA = Kayla Kalamasz

Batch Type: Analysis

CLL = Cheryl Loheyde

KXW = Kaitlyn White

MJH = Matthew Hartman

MTW = Michael Wesoloski

RSK = Robert Kurtz

SES = Samantha Strauser

WTR = Bill Reinheimer

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PRETEST

Date Collected: 01/10/18 10:20

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-1

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.6		0.1		%			01/24/18 06:29	1
Percent Solids	71.4		0.1		%			01/24/18 06:29	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.6		0.1		SU			02/07/18 11:36	1
pH	12.6		0.1		SU			02/12/18 14:21	1
pH	12.7		0.1		SU			02/12/18 14:24	1
pH	4.4		0.1		SU			02/12/18 14:27	1
pH	6.2		0.1		SU			02/12/18 14:33	1
pH	12.4		0.1		SU			02/16/18 13:05	1
pH	3.2		0.1		SU			02/16/18 13:10	1

Client Sample ID: AP 3-S - PH 13.0

Date Collected: 01/10/18 10:20

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-2

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<50		50		mg/L			02/08/18 20:09	50
Fluoride	<5.0		5.0		mg/L			02/08/18 20:09	50
Sulfate	380		50		mg/L			02/08/18 20:09	50

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6300		80		ug/L		02/08/18 11:28	02/13/18 03:33	1
Calcium	4700		500		ug/L		02/08/18 11:28	02/10/18 00:33	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	12.7		0.1		SU			02/07/18 11:43	1
Specific Conductance	45000		1.0		umhos/cm			02/07/18 11:25	1
Total Dissolved Solids	14000		330		mg/L			02/15/18 14:59	1
Oxidation Reduction Potential	- 59		10		millivolts			02/07/18 11:21	1

Client Sample ID: AP 3-S - PH 12.0

Date Collected: 01/10/18 10:20

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-3

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12		5.0		mg/L			02/26/18 16:14	5
Fluoride	1.0		0.50		mg/L			02/26/18 16:14	5
Sulfate	340		50		mg/L			02/26/18 16:30	50

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	5500		80		ug/L		02/19/18 13:03	02/22/18 04:21	1
Calcium	3600		500		ug/L		02/19/18 13:03	02/21/18 01:14	1

TestAmerica Pittsburgh

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PH 12.0

Lab Sample ID: 180-74122-3

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.9		0.1		SU			02/16/18 12:54	1
Specific Conductance	3200		1.0		umhos/cm			02/16/18 12:48	1
Total Dissolved Solids	1500		40		mg/L			02/19/18 15:41	1
Oxidation Reduction Potential	30		10		millivolts			02/16/18 12:53	1

Client Sample ID: AP 3-S - PH 10.5

Lab Sample ID: 180-74122-4

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		1.0		mg/L			02/22/18 12:20	1
Fluoride	0.47		0.10		mg/L			02/22/18 12:20	1
Sulfate	330		10		mg/L			02/22/18 12:35	10

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3900		80		ug/L		02/21/18 11:22	02/26/18 21:29	1
Calcium	37000		500		ug/L		02/21/18 11:22	02/23/18 11:40	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.2		0.1		SU			02/19/18 10:12	1
Specific Conductance	1100		1.0		umhos/cm			02/19/18 10:18	1
Total Dissolved Solids	670		10		mg/L			02/26/18 14:33	1
Oxidation Reduction Potential	150		10		millivolts			02/19/18 10:13	1

Client Sample ID: AP 3-S - PH 8.0

Lab Sample ID: 180-74122-6

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		2.5		mg/L			02/13/18 11:30	2.5
Fluoride	<0.50		0.50		mg/L			02/14/18 14:33	5
Sulfate	400		2.5		mg/L			02/13/18 11:30	2.5

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	5200		80		ug/L		02/13/18 13:38	02/15/18 22:34	1
Calcium	730000		500		ug/L		02/13/18 13:38	02/15/18 22:34	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.5		0.1		SU			02/12/18 14:39	1
Specific Conductance	5100		1.0		umhos/cm			02/12/18 14:19	1
Total Dissolved Solids	4300		40		mg/L			02/15/18 14:59	1
Oxidation Reduction Potential	270		10		millivolts			02/12/18 14:17	1

TestAmerica Pittsburgh

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PH 7.0

Date Collected: 01/10/18 10:20

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-7

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		2.5		mg/L			02/13/18 12:00	2.5
Fluoride	<0.50		0.50		mg/L			02/14/18 14:49	5
Sulfate	<2.5		2.5		mg/L			02/13/18 12:00	2.5

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6800		800		ug/L		02/13/18 13:38	02/16/18 20:33	10
Calcium	1600000		5000		ug/L		02/13/18 13:38	02/16/18 20:33	10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0		0.1		SU			02/12/18 14:36	1
Specific Conductance	8900		1.0		umhos/cm			02/12/18 14:14	1
Total Dissolved Solids	7500		40		mg/L			02/15/18 14:59	1
Oxidation Reduction Potential	290		10		millivolts			02/12/18 14:10	1

Client Sample ID: AP 3-S - PH 5.5

Date Collected: 01/10/18 10:20

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-8

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<25		25		mg/L			02/26/18 08:57	25
Fluoride	<2.5		2.5		mg/L			02/26/18 08:57	25
Sulfate	480		25		mg/L			02/26/18 08:57	25

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11000		800		ug/L		02/23/18 12:01	02/27/18 09:59	10
Calcium	3900000		5000		ug/L		02/23/18 12:01	02/27/18 09:59	10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.0		0.1		SU			02/23/18 10:12	1
Specific Conductance	20000		1.0		umhos/cm			02/23/18 10:12	1
Total Dissolved Solids	19000		200		mg/L			02/27/18 15:07	1
Oxidation Reduction Potential	180		10		millivolts			02/23/18 10:12	1

Client Sample ID: AP 3-S - PH 4.0

Date Collected: 01/10/18 10:20

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-9

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<50		50		mg/L			02/13/18 13:32	50
Fluoride	11		10		mg/L			02/14/18 15:04	100
Sulfate	400		50		mg/L			02/13/18 13:32	50

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	18000		800		ug/L		02/13/18 13:38	02/16/18 20:29	10

TestAmerica Pittsburgh

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - PH 4.0

Lab Sample ID: 180-74122-9

Date Collected: 01/10/18 10:20

Matrix: Solid

Date Received: 01/12/18 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	7300000		5000		ug/L		02/13/18 13:38	02/16/18 20:29	10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	3.8		0.1		SU			02/12/18 14:18	1
Specific Conductance	43000		1.0		umhos/cm			02/12/18 13:58	1
Total Dissolved Solids	50000		330		mg/L			02/15/18 14:59	1
Oxidation Reduction Potential	370		10		millivolts			02/12/18 13:57	1

Client Sample ID: AP 3-S - PH 2.0

Lab Sample ID: 180-74122-10

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<100		100		mg/L			02/22/18 11:16	100
Fluoride	<10		10		mg/L			02/22/18 11:16	100
Sulfate	620		100		mg/L			02/22/18 11:16	100

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	33000		8000		ug/L		02/23/18 12:01	02/27/18 09:46	10
Calcium	12000000		50000		ug/L		02/23/18 12:01	02/24/18 17:13	10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	2.3		0.1		SU			02/19/18 10:38	1
Specific Conductance	71000		1.0		umhos/cm			02/19/18 10:36	1
Total Dissolved Solids	83000		500		mg/L			02/26/18 14:33	1
Oxidation Reduction Potential	620		10		millivolts			02/19/18 10:34	1

Client Sample ID: AP 3-S - NATURAL

Lab Sample ID: 180-74122-11

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15		1.0		mg/L			02/08/18 10:43	1
Fluoride	0.31		0.10		mg/L			02/08/18 10:43	1
Sulfate	390		5.0		mg/L			02/08/18 10:59	5

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	3300		80		ug/L		02/08/18 11:22	02/13/18 01:06	1
Calcium	95000		500		ug/L		02/08/18 11:22	02/09/18 23:06	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	9.3		0.1		SU			02/07/18 14:13	1
Specific Conductance	870		1.0		umhos/cm			02/07/18 14:38	1
Total Dissolved Solids	610		10		mg/L			02/13/18 10:45	1

TestAmerica Pittsburgh

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 3-S - NATURAL

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-11

Matrix: Solid

General Chemistry - Leach (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oxidation Reduction Potential	180		10		millivolts			02/07/18 14:38	1

Client Sample ID: AP 2-S - PRETEST

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-12

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.6		0.1		%			01/24/18 06:29	1
Percent Solids	68.4		0.1		%			01/24/18 06:29	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	4.9		0.1		SU			02/07/18 11:49	1
pH	12.5		0.1		SU			02/12/18 14:43	1
pH	6.3		0.1		SU			02/12/18 14:46	1
pH	4.7		0.1		SU			02/12/18 14:58	1
pH	12.7		0.1		SU			02/12/18 15:01	1
pH	11.3		0.1		SU			02/16/18 13:16	1
pH	3.4		0.1		SU			02/16/18 13:27	1

Client Sample ID: AP 2-S - PH 13.0

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-13

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63		50		mg/L			02/08/18 20:40	50
Fluoride	<5.0		5.0		mg/L			02/08/18 20:40	50
Sulfate	300		50		mg/L			02/08/18 20:40	50

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	83000		800		ug/L		02/08/18 11:28	02/13/18 03:38	1
Calcium	34000		5000		ug/L		02/08/18 11:28	02/10/18 00:36	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	12.9		0.1		SU			02/07/18 11:30	1
Specific Conductance	45000		1.0		umhos/cm			02/07/18 11:10	1
Total Dissolved Solids	14000		330		mg/L			02/13/18 11:04	1
Oxidation Reduction Potential	- 20		10		millivolts			02/07/18 11:08	1

Client Sample ID: AP 2-S - PH 12.0

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-14

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	210		100		mg/L			02/26/18 13:03	100
Fluoride	<10		10		mg/L			02/26/18 13:03	100

TestAmerica Pittsburgh

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - PH 12.0

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-14

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1100		100		mg/L			02/26/18 13:03	100

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8500		80		ug/L		02/19/18 13:03	02/22/18 04:26	1
Calcium	2500		500		ug/L		02/19/18 13:03	02/21/18 01:17	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	12.4		0.1		SU			02/16/18 13:21	1
Specific Conductance	12000		1.0		umhos/cm			02/16/18 13:09	1
Total Dissolved Solids	4300		100		mg/L			02/19/18 15:41	1
Oxidation Reduction Potential	- 19		10		millivolts			02/16/18 13:09	1

Client Sample ID: AP 2-S - PH 10.5

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-15

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63		1.0		mg/L			02/22/18 12:51	1
Fluoride	0.42		0.10		mg/L			02/22/18 12:51	1
Sulfate	240		10		mg/L			02/22/18 13:07	10

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	5500		80		ug/L		02/21/18 11:22	02/26/18 21:33	1
Calcium	13000		500		ug/L		02/21/18 11:22	02/23/18 11:43	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	10.0		0.1		SU			02/19/18 10:19	1
Specific Conductance	1100		1.0		umhos/cm			02/19/18 10:24	1
Total Dissolved Solids	670		10		mg/L			02/26/18 14:33	1
Oxidation Reduction Potential	160		10		millivolts			02/19/18 10:20	1

Client Sample ID: AP 2-S - PH 8.0

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-17

Matrix: Solid

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69		2.5		mg/L			02/13/18 14:03	2.5
Fluoride	<0.50		0.50		mg/L			02/14/18 15:20	5
Sulfate	270		2.5		mg/L			02/13/18 14:03	2.5

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	5500		80		ug/L		02/13/18 13:38	02/15/18 23:01	1
Calcium	390000		500		ug/L		02/13/18 13:38	02/15/18 23:01	1

TestAmerica Pittsburgh

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - PH 8.0

Lab Sample ID: 180-74122-17

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.8		0.1		SU			02/12/18 14:55	1
Specific Conductance	3300		1.0		umhos/cm			02/12/18 14:35	1
Total Dissolved Solids	2600		20		mg/L			02/15/18 14:59	1
Oxidation Reduction Potential	260		10		millivolts			02/12/18 14:36	1

Client Sample ID: AP 2-S - PH 7.0

Lab Sample ID: 180-74122-18

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69		2.5		mg/L			02/13/18 14:34	2.5
Fluoride	<0.50		0.50		mg/L			02/14/18 15:36	5
Sulfate	280		2.5		mg/L			02/13/18 14:34	2.5

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	6400		80		ug/L		02/13/18 13:38	02/15/18 22:39	1
Calcium	700000		500		ug/L		02/13/18 13:38	02/15/18 22:39	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.4		0.1		SU			02/12/18 14:49	1
Specific Conductance	5200		1.0		umhos/cm			02/12/18 14:24	1
Total Dissolved Solids	4200		40		mg/L			02/15/18 14:59	1
Oxidation Reduction Potential	270		10		millivolts			02/12/18 14:23	1

Client Sample ID: AP 2-S - PH 5.5

Lab Sample ID: 180-74122-19

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44		25		mg/L			02/26/18 09:13	25
Fluoride	<2.5		2.5		mg/L			02/26/18 09:13	25
Sulfate	380		25		mg/L			02/26/18 09:13	25

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12000		800		ug/L		02/23/18 12:01	02/27/18 10:17	10
Calcium	5100000		5000		ug/L		02/23/18 12:01	02/27/18 10:17	10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.6		0.1		SU			02/23/18 10:18	1
Specific Conductance	25000		1.0		umhos/cm			02/23/18 10:17	1
Total Dissolved Solids	26000		200		mg/L			02/27/18 15:07	1
Oxidation Reduction Potential	240		10		millivolts			02/23/18 10:18	1

TestAmerica Pittsburgh

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - PH 4.0

Lab Sample ID: 180-74122-20

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	57		50		mg/L			02/13/18 16:40	50
Fluoride	<10		10		mg/L			02/14/18 15:52	100
Sulfate	290		50		mg/L			02/13/18 16:40	50

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	19000		800		ug/L		02/13/18 13:38	02/16/18 20:38	10
Calcium	7900000		5000		ug/L		02/13/18 13:38	02/16/18 20:38	10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	3.8		0.1		SU			02/12/18 14:52	1
Specific Conductance	43000		1.0		umhos/cm			02/12/18 14:29	1
Total Dissolved Solids	51000		330		mg/L			02/15/18 14:59	1
Oxidation Reduction Potential	370		10		millivolts			02/12/18 14:29	1

Client Sample ID: AP 2-S - PH 2.0

Lab Sample ID: 180-74122-21

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<100		100		mg/L			02/22/18 11:48	100
Fluoride	<10		10		mg/L			02/22/18 11:48	100
Sulfate	440		100		mg/L			02/22/18 11:48	100

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	30000		8000		ug/L		02/23/18 12:01	02/27/18 09:50	10
Calcium	12000000		50000		ug/L		02/23/18 12:01	02/24/18 17:16	10

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	2.3		0.1		SU			02/19/18 10:44	1
Specific Conductance	69000		1.0		umhos/cm			02/19/18 10:42	1
Total Dissolved Solids	82000		500		mg/L			02/26/18 14:33	1
Oxidation Reduction Potential	630		10		millivolts			02/19/18 10:40	1

Client Sample ID: AP 2-S - NATURAL

Lab Sample ID: 180-74122-22

Date Collected: 01/10/18 10:50

Matrix: Solid

Date Received: 01/12/18 09:10

Method: EPA 9056A - Anions, Ion Chromatography - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69		1.0		mg/L			02/08/18 11:15	1
Fluoride	<0.10		0.10		mg/L			02/08/18 11:15	1
Sulfate	310		5.0		mg/L			02/08/18 11:31	5

Method: EPA 6020A - Metals (ICP/MS) - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	4600		80		ug/L		02/08/18 11:22	02/13/18 01:11	1

TestAmerica Pittsburgh

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Client Sample ID: AP 2-S - NATURAL

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-22

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	59000		500		ug/L		02/08/18 11:22	02/09/18 23:09	1

General Chemistry - Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.8		0.1		SU			02/07/18 14:16	1
Specific Conductance	930		1.0		umhos/cm			02/07/18 14:41	1
Total Dissolved Solids	590		10		mg/L			02/13/18 10:45	1
Oxidation Reduction Potential	190		10		millivolts			02/07/18 14:43	1

Client Sample ID: AP 3-S - AIR DIED

Date Collected: 01/10/18 10:20

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-23

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	1.2		0.1		%			02/02/18 11:37	1
Percent Solids	98.8		0.1		%			02/02/18 11:37	1

Client Sample ID: AP 2-S - AIR DRIED

Date Collected: 01/10/18 10:50

Date Received: 01/12/18 09:10

Lab Sample ID: 180-74122-24

Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.1		0.1		%			02/02/18 11:37	1
Percent Solids	97.9		0.1		%			02/02/18 11:37	1

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-236373/6
Matrix: Solid
Analysis Batch: 236373

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			02/08/18 06:17	1
Fluoride	<0.10		0.10		mg/L			02/08/18 06:17	1
Sulfate	<1.0		1.0		mg/L			02/08/18 06:17	1

Lab Sample ID: LCS 180-236373/5
Matrix: Solid
Analysis Batch: 236373

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.0		mg/L		100	80 - 120
Fluoride	1.25	1.02		mg/L		82	80 - 120
Sulfate	25.0	24.0		mg/L		96	80 - 120

Lab Sample ID: MB 180-236377/17
Matrix: Solid
Analysis Batch: 236377

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			02/08/18 09:27	1
Fluoride	<0.10		0.10		mg/L			02/08/18 09:27	1
Sulfate	<1.0		1.0		mg/L			02/08/18 09:27	1

Lab Sample ID: LCS 180-236377/16
Matrix: Solid
Analysis Batch: 236377

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.0		mg/L		100	80 - 120
Fluoride	1.25	1.18		mg/L		94	80 - 120
Sulfate	25.0	24.1		mg/L		96	80 - 120

Lab Sample ID: MB 180-236732/6
Matrix: Solid
Analysis Batch: 236732

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			02/13/18 05:33	1
Sulfate	<1.0		1.0		mg/L			02/13/18 05:33	1

Lab Sample ID: LCS 180-236732/5
Matrix: Solid
Analysis Batch: 236732

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.9		mg/L		103	80 - 120
Sulfate	25.0	25.1		mg/L		100	80 - 120

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Method: EPA 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 180-236891/6
Matrix: Solid
Analysis Batch: 236891

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			02/14/18 11:05	1
Fluoride	<0.10		0.10		mg/L			02/14/18 11:05	1
Sulfate	<1.0		1.0		mg/L			02/14/18 11:05	1

Lab Sample ID: LCS 180-236891/5
Matrix: Solid
Analysis Batch: 236891

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.9		mg/L		104	80 - 120
Fluoride	2.50	2.58		mg/L		103	80 - 120
Sulfate	50.0	49.2		mg/L		98	80 - 120

Lab Sample ID: MB 180-237598/6
Matrix: Solid
Analysis Batch: 237598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			02/22/18 08:13	1
Fluoride	<0.10		0.10		mg/L			02/22/18 08:13	1
Sulfate	<1.0		1.0		mg/L			02/22/18 08:13	1

Lab Sample ID: LCS 180-237598/5
Matrix: Solid
Analysis Batch: 237598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	25.4		mg/L		102	80 - 120
Fluoride	1.25	1.20		mg/L		96	80 - 120
Sulfate	25.0	21.2		mg/L		85	80 - 120

Lab Sample ID: MB 180-237859/6
Matrix: Solid
Analysis Batch: 237859

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			02/26/18 08:06	1
Fluoride	<0.10		0.10		mg/L			02/26/18 08:06	1
Sulfate	<1.0		1.0		mg/L			02/26/18 08:06	1

Lab Sample ID: LCS 180-237859/5
Matrix: Solid
Analysis Batch: 237859

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25.0	26.4		mg/L		106	80 - 120
Fluoride	1.25	1.23		mg/L		99	80 - 120
Sulfate	25.0	22.5		mg/L		90	80 - 120

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

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

Lab Sample ID: MB 180-236437/1-A
Matrix: Solid
Analysis Batch: 236729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<500		500		ug/L		02/08/18 11:22	02/09/18 22:43	1

Lab Sample ID: MB 180-236437/1-A
Matrix: Solid
Analysis Batch: 236828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<80		80		ug/L		02/08/18 11:22	02/13/18 00:25	1

Lab Sample ID: LCS 180-236437/2-A
Matrix: Solid
Analysis Batch: 236729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	50000	53100		ug/L		106	80 - 120

Lab Sample ID: LCS 180-236437/2-A
Matrix: Solid
Analysis Batch: 236828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1010		ug/L		101	80 - 120

Lab Sample ID: LCSD 180-236437/3-A
Matrix: Solid
Analysis Batch: 236729

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236437

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	50000	52500		ug/L		105	80 - 120	1	20

Lab Sample ID: LCSD 180-236437/3-A
Matrix: Solid
Analysis Batch: 236828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236437

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	1000	1030		ug/L		103	80 - 120	2	20

Lab Sample ID: MB 180-236440/1-A
Matrix: Solid
Analysis Batch: 236729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236440

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<500		500		ug/L		02/08/18 11:28	02/10/18 00:04	1

Lab Sample ID: MB 180-236440/1-A
Matrix: Solid
Analysis Batch: 236828

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236440

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<80		80		ug/L		02/08/18 11:28	02/13/18 02:47	1

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Lab Sample ID: LCS 180-236440/2-A
Matrix: Solid
Analysis Batch: 236729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236440
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Calcium	50000	52800		ug/L		106	80 - 120

Lab Sample ID: LCS 180-236440/2-A
Matrix: Solid
Analysis Batch: 236828

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236440
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1000	916		ug/L		92	80 - 120

Lab Sample ID: LCSD 180-236440/3-A
Matrix: Solid
Analysis Batch: 236729

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236440
%Rec.

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	50000	51500		ug/L		103	80 - 120	2	20

Lab Sample ID: LCSD 180-236440/3-A
Matrix: Solid
Analysis Batch: 236828

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236440
%Rec.

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	1000	917		ug/L		92	80 - 120	0	20

Lab Sample ID: MB 180-236807/1-A
Matrix: Solid
Analysis Batch: 237198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236807

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<80		80		ug/L		02/13/18 13:38	02/15/18 21:43	1
Calcium	<500		500		ug/L		02/13/18 13:38	02/15/18 21:43	1

Lab Sample ID: LCS 180-236807/2-A
Matrix: Solid
Analysis Batch: 237198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236807
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1000	866		ug/L		87	80 - 120
Calcium	50000	46700		ug/L		93	80 - 120

Lab Sample ID: LCSD 180-236807/3-A
Matrix: Solid
Analysis Batch: 237198

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236807
%Rec.

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	1000	879		ug/L		88	80 - 120	1	20
Calcium	50000	46500		ug/L		93	80 - 120	1	20

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

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

Lab Sample ID: MB 180-237311/1-A
Matrix: Solid
Analysis Batch: 237590

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<500		500		ug/L		02/19/18 13:03	02/21/18 00:31	1

Lab Sample ID: MB 180-237311/1-A
Matrix: Solid
Analysis Batch: 237713

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<80		80		ug/L		02/19/18 13:03	02/22/18 03:08	1

Lab Sample ID: LCS 180-237311/2-A
Matrix: Solid
Analysis Batch: 237590

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237311

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	50000	48400		ug/L		97	80 - 120

Lab Sample ID: LCS 180-237311/2-A
Matrix: Solid
Analysis Batch: 237713

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237311

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1000	1010		ug/L		101	80 - 120

Lab Sample ID: LCSD 180-237311/3-A
Matrix: Solid
Analysis Batch: 237590

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237311

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	50000	48200		ug/L		96	80 - 120	0	20

Lab Sample ID: LCSD 180-237311/3-A
Matrix: Solid
Analysis Batch: 237713

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237311

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	1000	1020		ug/L		102	80 - 120	0	20

Lab Sample ID: MB 180-237537/1-A
Matrix: Solid
Analysis Batch: 237821

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<500		500		ug/L		02/21/18 11:22	02/23/18 11:29	1

Lab Sample ID: MB 180-237537/1-A
Matrix: Solid
Analysis Batch: 238052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237537

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<80		80		ug/L		02/21/18 11:22	02/26/18 21:10	1

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Lab Sample ID: LCS 180-237537/2-A
Matrix: Solid
Analysis Batch: 237821

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237537
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Calcium	50000	55300		ug/L		111	80 - 120

Lab Sample ID: LCS 180-237537/2-A
Matrix: Solid
Analysis Batch: 238052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237537
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1000	1010		ug/L		101	80 - 120

Lab Sample ID: LCSD 180-237537/3-A
Matrix: Solid
Analysis Batch: 237821

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237537
%Rec.

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium	50000	55200		ug/L		110	80 - 120	0	20

Lab Sample ID: LCSD 180-237537/3-A
Matrix: Solid
Analysis Batch: 238052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237537
%Rec.

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	1000	1060		ug/L		106	80 - 120	5	20

Lab Sample ID: MB 180-237767/1-A
Matrix: Solid
Analysis Batch: 237942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<500		500		ug/L		02/23/18 12:01	02/24/18 16:45	1

Lab Sample ID: MB 180-237767/1-A
Matrix: Solid
Analysis Batch: 238052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<80		80		ug/L		02/23/18 12:01	02/27/18 09:22	1

Lab Sample ID: LCS 180-237767/2-A
Matrix: Solid
Analysis Batch: 237942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237767
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Calcium	50000	51800		ug/L		104	80 - 120

Lab Sample ID: LCS 180-237767/2-A
Matrix: Solid
Analysis Batch: 238052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237767
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1000	970		ug/L		97	80 - 120

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

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

Lab Sample ID: LCSD 180-237767/3-A
Matrix: Solid
Analysis Batch: 237942

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	50000	52100		ug/L		104	80 - 120	1	20

Lab Sample ID: LCSD 180-237767/3-A
Matrix: Solid
Analysis Batch: 238052

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	1000	1000		ug/L		100	80 - 120	3	20

Method: 2540G - SM 2540G

Lab Sample ID: 180-74122-12 DU
Matrix: Solid
Analysis Batch: 234952

Client Sample ID: AP 2-S - PRETEST
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	31.6		32.9		%		4	20
Percent Solids	68.4		67.1		%		2	20

Lab Sample ID: 180-74122-23 DU
Matrix: Solid
Analysis Batch: 235859

Client Sample ID: AP 3-S - AIR DIED
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	1.2		1.2		%		0.4	20
Percent Solids	98.8		98.8		%		0	20

Method: EPA 9040C - pH

Lab Sample ID: LCS 180-236465/1
Matrix: Solid
Analysis Batch: 236465

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-236465/47
Matrix: Solid
Analysis Batch: 236465

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-237380/1
Matrix: Solid
Analysis Batch: 237380

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Lab Sample ID: LCS 180-237531/1
Matrix: Solid
Analysis Batch: 237531

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-237737/1
Matrix: Solid
Analysis Batch: 237737

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Lab Sample ID: LCS 180-237772/1
Matrix: Solid
Analysis Batch: 237772

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.0		SU		100	99 - 101

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 180-236475/2
Matrix: Solid
Analysis Batch: 236475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<1.0		1.0		umhos/cm			02/07/18 11:03	1

Lab Sample ID: MB 180-236475/43
Matrix: Solid
Analysis Batch: 236475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<1.0		1.0		umhos/cm			02/07/18 13:32	1

Lab Sample ID: LCS 180-236475/1
Matrix: Solid
Analysis Batch: 236475

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	84.0	85.1		umhos/cm		101	90 - 110

Lab Sample ID: LCS 180-236475/42
Matrix: Solid
Analysis Batch: 236475

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	84.0	85.1		umhos/cm		101	90 - 110

Lab Sample ID: MB 180-237425/2
Matrix: Solid
Analysis Batch: 237425

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<1.0		1.0		umhos/cm			02/12/18 10:05	1

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Lab Sample ID: LCS 180-237425/1
Matrix: Solid
Analysis Batch: 237425

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	84.0	85.0		umhos/cm		101	90 - 110

Lab Sample ID: MB 180-237553/2
Matrix: Solid
Analysis Batch: 237553

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<1.0		1.0		umhos/cm			02/19/18 10:06	1

Lab Sample ID: LCS 180-237553/1
Matrix: Solid
Analysis Batch: 237553

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	84.0	88.6		umhos/cm		105	90 - 110

Lab Sample ID: MB 180-237752/2
Matrix: Solid
Analysis Batch: 237752

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<1.0		1.0		umhos/cm			02/16/18 08:07	1

Lab Sample ID: LCS 180-237752/1
Matrix: Solid
Analysis Batch: 237752

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	84.0	85.1		umhos/cm		101	90 - 110

Lab Sample ID: MB 180-237776/2
Matrix: Solid
Analysis Batch: 237776

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	<1.0		1.0		umhos/cm			02/23/18 10:04	1

Lab Sample ID: LCS 180-237776/1
Matrix: Solid
Analysis Batch: 237776

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Specific Conductance	84.0	88.5		umhos/cm		105	90 - 110

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

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

Lab Sample ID: MB 180-236785/2
Matrix: Solid
Analysis Batch: 236785

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			02/13/18 10:45	1

Lab Sample ID: LCS 180-236785/1
Matrix: Solid
Analysis Batch: 236785

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	339	388		mg/L		114	80 - 120

Lab Sample ID: MB 180-236788/2
Matrix: Solid
Analysis Batch: 236788

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			02/13/18 11:04	1

Lab Sample ID: LCS 180-236788/1
Matrix: Solid
Analysis Batch: 236788

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	339	360		mg/L		106	80 - 120

Lab Sample ID: MB 180-237078/2
Matrix: Solid
Analysis Batch: 237078

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			02/15/18 14:59	1

Lab Sample ID: LCS 180-237078/1
Matrix: Solid
Analysis Batch: 237078

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	339	342		mg/L		101	80 - 120

Lab Sample ID: MB 180-237329/2
Matrix: Solid
Analysis Batch: 237329

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			02/19/18 15:41	1

Lab Sample ID: LCS 180-237329/1
Matrix: Solid
Analysis Batch: 237329

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	339	330		mg/L		97	80 - 120

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Lab Sample ID: MB 180-237940/2
Matrix: Solid
Analysis Batch: 237940

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			02/26/18 14:33	1

Lab Sample ID: LCS 180-237940/1
Matrix: Solid
Analysis Batch: 237940

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	339	338		mg/L		100	80 - 120

Lab Sample ID: MB 180-238055/2
Matrix: Solid
Analysis Batch: 238055

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			02/27/18 15:07	1

Lab Sample ID: LCS 180-238055/1
Matrix: Solid
Analysis Batch: 238055

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	339	360		mg/L		106	80 - 120

Lab Sample ID: 180-74122-13 DU
Matrix: Solid
Analysis Batch: 236788

Client Sample ID: AP 2-S - PH 13.0
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	14000		13800		mg/L		3	10

Lab Sample ID: 180-74122-2 DU
Matrix: Solid
Analysis Batch: 237078

Client Sample ID: AP 3-S - PH 13.0
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	14000		13800		mg/L		1	10

Lab Sample ID: 180-74122-10 DU
Matrix: Solid
Analysis Batch: 237940

Client Sample ID: AP 3-S - PH 2.0
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	83000		83300		mg/L		0.8	10

Lab Sample ID: 180-74122-21 DU
Matrix: Solid
Analysis Batch: 237940

Client Sample ID: AP 2-S - PH 2.0
Prep Type: Leach

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	82000		79400		mg/L		4	10

TestAmerica Pittsburgh

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Method: SM 2580B - Reduction-Oxidation (REDOX) Potential

Lab Sample ID: LCS 180-236472/1
Matrix: Solid
Analysis Batch: 236472

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxidation Reduction Potential	475	467		millivolts		98	90 - 110

Lab Sample ID: LCS 180-236472/36
Matrix: Solid
Analysis Batch: 236472

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxidation Reduction Potential	475	463		millivolts		97	90 - 110

Lab Sample ID: LCS 180-237422/1
Matrix: Solid
Analysis Batch: 237422

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxidation Reduction Potential	475	466		millivolts		98	90 - 110

Lab Sample ID: LCS 180-237550/1
Matrix: Solid
Analysis Batch: 237550

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxidation Reduction Potential	475	469		millivolts		99	90 - 110

Lab Sample ID: LCS 180-237751/1
Matrix: Solid
Analysis Batch: 237751

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxidation Reduction Potential	475	467		millivolts		98	90 - 110

Lab Sample ID: LCS 180-237774/1
Matrix: Solid
Analysis Batch: 237774

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oxidation Reduction Potential	475	473		millivolts		100	90 - 110

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

HPLC/IC

Leach Batch: 236165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	1313	
180-74122-11	AP 3-S - NATURAL	Leach	Solid	1313	
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	1313	
180-74122-22	AP 2-S - NATURAL	Leach	Solid	1313	

Analysis Batch: 236373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-11	AP 3-S - NATURAL	Leach	Solid	EPA 9056A	236165
180-74122-11	AP 3-S - NATURAL	Leach	Solid	EPA 9056A	236165
180-74122-22	AP 2-S - NATURAL	Leach	Solid	EPA 9056A	236165
180-74122-22	AP 2-S - NATURAL	Leach	Solid	EPA 9056A	236165
MB 180-236373/6	Method Blank	Total/NA	Solid	EPA 9056A	
LCS 180-236373/5	Lab Control Sample	Total/NA	Solid	EPA 9056A	

Analysis Batch: 236377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	EPA 9056A	236165
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	EPA 9056A	236165
MB 180-236377/17	Method Blank	Total/NA	Solid	EPA 9056A	
LCS 180-236377/16	Lab Control Sample	Total/NA	Solid	EPA 9056A	

Leach Batch: 236722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	1313	
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	1313	
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	1313	
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	1313	
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	1313	
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	1313	

Analysis Batch: 236732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	EPA 9056A	236722
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	EPA 9056A	236722
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	EPA 9056A	236722
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	EPA 9056A	236722
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	EPA 9056A	236722
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	EPA 9056A	236722
MB 180-236732/6	Method Blank	Total/NA	Solid	EPA 9056A	
LCS 180-236732/5	Lab Control Sample	Total/NA	Solid	EPA 9056A	

Analysis Batch: 236891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	EPA 9056A	236722
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	EPA 9056A	236722
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	EPA 9056A	236722
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	EPA 9056A	236722
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	EPA 9056A	236722
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	EPA 9056A	236722
MB 180-236891/6	Method Blank	Total/NA	Solid	EPA 9056A	
LCS 180-236891/5	Lab Control Sample	Total/NA	Solid	EPA 9056A	

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Leach Batch: 237165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	1313	
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	1313	

Leach Batch: 237381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	1313	
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	1313	
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	1313	
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	1313	

Analysis Batch: 237598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	EPA 9056A	237381
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	EPA 9056A	237381
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	EPA 9056A	237381
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	EPA 9056A	237381
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	EPA 9056A	237381
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	EPA 9056A	237381
MB 180-237598/6	Method Blank	Total/NA	Solid	EPA 9056A	
LCS 180-237598/5	Lab Control Sample	Total/NA	Solid	EPA 9056A	

Leach Batch: 237761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	1313	
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	1313	

Analysis Batch: 237859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	EPA 9056A	237165
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	EPA 9056A	237165
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	EPA 9056A	237761
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	EPA 9056A	237165
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	EPA 9056A	237761
MB 180-237859/6	Method Blank	Total/NA	Solid	EPA 9056A	
LCS 180-237859/5	Lab Control Sample	Total/NA	Solid	EPA 9056A	

Metals

Leach Batch: 236165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	1313	
180-74122-11	AP 3-S - NATURAL	Leach	Solid	1313	
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	1313	
180-74122-22	AP 2-S - NATURAL	Leach	Solid	1313	

Prep Batch: 236437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-11	AP 3-S - NATURAL	Leach	Solid	3010A	236165
180-74122-22	AP 2-S - NATURAL	Leach	Solid	3010A	236165
MB 180-236437/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-236437/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 180-236437/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Metals (Continued)

Prep Batch: 236440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	3010A	236165
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	3010A	236165
MB 180-236440/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-236440/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 180-236440/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Leach Batch: 236722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	1313	
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	1313	
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	1313	
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	1313	
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	1313	
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	1313	

Analysis Batch: 236729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	EPA 6020A	236440
180-74122-11	AP 3-S - NATURAL	Leach	Solid	EPA 6020A	236437
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	EPA 6020A	236440
180-74122-22	AP 2-S - NATURAL	Leach	Solid	EPA 6020A	236437
MB 180-236437/1-A	Method Blank	Total/NA	Solid	EPA 6020A	236437
MB 180-236440/1-A	Method Blank	Total/NA	Solid	EPA 6020A	236440
LCS 180-236437/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	236437
LCS 180-236440/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	236440
LCSD 180-236437/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	236437
LCSD 180-236440/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	236440

Prep Batch: 236807

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	3010A	236722
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	3010A	236722
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	3010A	236722
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	3010A	236722
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	3010A	236722
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	3010A	236722
MB 180-236807/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-236807/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 180-236807/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 236828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	EPA 6020A	236440
180-74122-11	AP 3-S - NATURAL	Leach	Solid	EPA 6020A	236437
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	EPA 6020A	236440
180-74122-22	AP 2-S - NATURAL	Leach	Solid	EPA 6020A	236437
MB 180-236437/1-A	Method Blank	Total/NA	Solid	EPA 6020A	236437
MB 180-236440/1-A	Method Blank	Total/NA	Solid	EPA 6020A	236440
LCS 180-236437/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	236437
LCS 180-236440/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	236440
LCSD 180-236437/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	236437

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Metals (Continued)

Analysis Batch: 236828 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 180-236440/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	236440

Leach Batch: 237165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	1313	
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	1313	

Analysis Batch: 237198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	EPA 6020A	236807
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	EPA 6020A	236807
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	EPA 6020A	236807
MB 180-236807/1-A	Method Blank	Total/NA	Solid	EPA 6020A	236807
LCS 180-236807/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	236807
LCSD 180-236807/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	236807

Prep Batch: 237311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	3010A	237165
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	3010A	237165
MB 180-237311/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-237311/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 180-237311/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 237323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	EPA 6020A	236807
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	EPA 6020A	236807
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	EPA 6020A	236807

Leach Batch: 237381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	1313	
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	1313	
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	1313	
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	1313	

Prep Batch: 237537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	3010A	237381
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	3010A	237381
MB 180-237537/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-237537/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 180-237537/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 237590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	EPA 6020A	237311
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	EPA 6020A	237311
MB 180-237311/1-A	Method Blank	Total/NA	Solid	EPA 6020A	237311
LCS 180-237311/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	237311

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Metals (Continued)

Analysis Batch: 237590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 180-237311/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	237311

Analysis Batch: 237713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	EPA 6020A	237311
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	EPA 6020A	237311
MB 180-237311/1-A	Method Blank	Total/NA	Solid	EPA 6020A	237311
LCS 180-237311/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	237311
LCSD 180-237311/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	237311

Leach Batch: 237761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	1313	
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	1313	

Prep Batch: 237767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	3010A	237761
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	3010A	237381
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	3010A	237761
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	3010A	237381
MB 180-237767/1-A	Method Blank	Total/NA	Solid	3010A	
LCS 180-237767/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 180-237767/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	

Analysis Batch: 237821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	EPA 6020A	237537
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	EPA 6020A	237537
MB 180-237537/1-A	Method Blank	Total/NA	Solid	EPA 6020A	237537
LCS 180-237537/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	237537
LCSD 180-237537/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	237537

Analysis Batch: 237942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	EPA 6020A	237767
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	EPA 6020A	237767
MB 180-237767/1-A	Method Blank	Total/NA	Solid	EPA 6020A	237767
LCS 180-237767/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	237767
LCSD 180-237767/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	237767

Analysis Batch: 238052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	EPA 6020A	237537
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	EPA 6020A	237767
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	EPA 6020A	237767
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	EPA 6020A	237537
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	EPA 6020A	237767
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	EPA 6020A	237767
MB 180-237537/1-A	Method Blank	Total/NA	Solid	EPA 6020A	237537
MB 180-237767/1-A	Method Blank	Total/NA	Solid	EPA 6020A	237767

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

Metals (Continued)

Analysis Batch: 238052 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 180-237537/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	237537
LCS 180-237767/2-A	Lab Control Sample	Total/NA	Solid	EPA 6020A	237767
LCS 180-237537/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	237537
LCS 180-237767/3-A	Lab Control Sample Dup	Total/NA	Solid	EPA 6020A	237767

General Chemistry

Analysis Batch: 234952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-1	AP 3-S - PRETEST	Total/NA	Solid	2540G	
180-74122-12	AP 2-S - PRETEST	Total/NA	Solid	2540G	
180-74122-12 DU	AP 2-S - PRETEST	Total/NA	Solid	2540G	

Analysis Batch: 235859

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-23	AP 3-S - AIR DIED	Total/NA	Solid	2540G	
180-74122-24	AP 2-S - AIR DRIED	Total/NA	Solid	2540G	
180-74122-23 DU	AP 3-S - AIR DIED	Total/NA	Solid	2540G	

Leach Batch: 236165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-1	AP 3-S - PRETEST	Leach	Solid	1313	
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	1313	
180-74122-11	AP 3-S - NATURAL	Leach	Solid	1313	
180-74122-12	AP 2-S - PRETEST	Leach	Solid	1313	
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	1313	
180-74122-22	AP 2-S - NATURAL	Leach	Solid	1313	
180-74122-2 DU	AP 3-S - PH 13.0	Leach	Solid	1313	
180-74122-13 DU	AP 2-S - PH 13.0	Leach	Solid	1313	

Analysis Batch: 236465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-1	AP 3-S - PRETEST	Leach	Solid	EPA 9040C	236165
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	EPA 9040C	236165
180-74122-11	AP 3-S - NATURAL	Leach	Solid	EPA 9040C	236165
180-74122-12	AP 2-S - PRETEST	Leach	Solid	EPA 9040C	236165
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	EPA 9040C	236165
180-74122-22	AP 2-S - NATURAL	Leach	Solid	EPA 9040C	236165
LCS 180-236465/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	
LCS 180-236465/47	Lab Control Sample	Total/NA	Solid	EPA 9040C	

Analysis Batch: 236472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	SM 2580B	236165
180-74122-11	AP 3-S - NATURAL	Leach	Solid	SM 2580B	236165
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	SM 2580B	236165
180-74122-22	AP 2-S - NATURAL	Leach	Solid	SM 2580B	236165
LCS 180-236472/1	Lab Control Sample	Total/NA	Solid	SM 2580B	
LCS 180-236472/36	Lab Control Sample	Total/NA	Solid	SM 2580B	

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

General Chemistry (Continued)

Analysis Batch: 236475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	SM 2510B	236165
180-74122-11	AP 3-S - NATURAL	Leach	Solid	SM 2510B	236165
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	SM 2510B	236165
180-74122-22	AP 2-S - NATURAL	Leach	Solid	SM 2510B	236165
MB 180-236475/2	Method Blank	Total/NA	Solid	SM 2510B	
MB 180-236475/43	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-236475/1	Lab Control Sample	Total/NA	Solid	SM 2510B	
LCS 180-236475/42	Lab Control Sample	Total/NA	Solid	SM 2510B	

Leach Batch: 236722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	1313	
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	1313	
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	1313	
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	1313	
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	1313	
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	1313	

Analysis Batch: 236785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-11	AP 3-S - NATURAL	Leach	Solid	SM 2540C	236165
180-74122-22	AP 2-S - NATURAL	Leach	Solid	SM 2540C	236165
MB 180-236785/2	Method Blank	Total/NA	Solid	SM 2540C	
LCS 180-236785/1	Lab Control Sample	Total/NA	Solid	SM 2540C	

Analysis Batch: 236788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-13	AP 2-S - PH 13.0	Leach	Solid	SM 2540C	236165
MB 180-236788/2	Method Blank	Total/NA	Solid	SM 2540C	
LCS 180-236788/1	Lab Control Sample	Total/NA	Solid	SM 2540C	
180-74122-13 DU	AP 2-S - PH 13.0	Leach	Solid	SM 2540C	236165

Analysis Batch: 237078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-2	AP 3-S - PH 13.0	Leach	Solid	SM 2540C	236165
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	SM 2540C	236722
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	SM 2540C	236722
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	SM 2540C	236722
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	SM 2540C	236722
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	SM 2540C	236722
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	SM 2540C	236722
MB 180-237078/2	Method Blank	Total/NA	Solid	SM 2540C	
LCS 180-237078/1	Lab Control Sample	Total/NA	Solid	SM 2540C	
180-74122-2 DU	AP 3-S - PH 13.0	Leach	Solid	SM 2540C	236165

Leach Batch: 237107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-1	AP 3-S - PRETEST	Leach	Solid	1313	
180-74122-1	AP 3-S - PRETEST	Leach	Solid	1313	
180-74122-1	AP 3-S - PRETEST	Leach	Solid	1313	
180-74122-1	AP 3-S - PRETEST	Leach	Solid	1313	

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

General Chemistry (Continued)

Leach Batch: 237107 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-12	AP 2-S - PRETEST	Leach	Solid	1313	
180-74122-12	AP 2-S - PRETEST	Leach	Solid	1313	
180-74122-12	AP 2-S - PRETEST	Leach	Solid	1313	
180-74122-12	AP 2-S - PRETEST	Leach	Solid	1313	

Leach Batch: 237165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	1313	
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	1313	

Analysis Batch: 237329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	SM 2540C	237165
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	SM 2540C	237165
MB 180-237329/2	Method Blank	Total/NA	Solid	SM 2540C	
LCS 180-237329/1	Lab Control Sample	Total/NA	Solid	SM 2540C	

Analysis Batch: 237380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-1	AP 3-S - PRETEST	Leach	Solid	EPA 9040C	237107
180-74122-1	AP 3-S - PRETEST	Leach	Solid	EPA 9040C	237107
180-74122-1	AP 3-S - PRETEST	Leach	Solid	EPA 9040C	237107
180-74122-1	AP 3-S - PRETEST	Leach	Solid	EPA 9040C	237107
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	EPA 9040C	236722
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	EPA 9040C	236722
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	EPA 9040C	236722
180-74122-12	AP 2-S - PRETEST	Leach	Solid	EPA 9040C	237107
180-74122-12	AP 2-S - PRETEST	Leach	Solid	EPA 9040C	237107
180-74122-12	AP 2-S - PRETEST	Leach	Solid	EPA 9040C	237107
180-74122-12	AP 2-S - PRETEST	Leach	Solid	EPA 9040C	237107
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	EPA 9040C	236722
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	EPA 9040C	236722
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	EPA 9040C	236722
LCS 180-237380/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	

Leach Batch: 237381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	1313	
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	1313	
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	1313	
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	1313	
180-74122-10 DU	AP 3-S - PH 2.0	Leach	Solid	1313	
180-74122-21 DU	AP 2-S - PH 2.0	Leach	Solid	1313	

Analysis Batch: 237422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	SM 2580B	236722
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	SM 2580B	236722
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	SM 2580B	236722
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	SM 2580B	236722
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	SM 2580B	236722

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

General Chemistry (Continued)

Analysis Batch: 237422 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	SM 2580B	236722
LCS 180-237422/1	Lab Control Sample	Total/NA	Solid	SM 2580B	

Analysis Batch: 237425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-6	AP 3-S - PH 8.0	Leach	Solid	SM 2510B	236722
180-74122-7	AP 3-S - PH 7.0	Leach	Solid	SM 2510B	236722
180-74122-9	AP 3-S - PH 4.0	Leach	Solid	SM 2510B	236722
180-74122-17	AP 2-S - PH 8.0	Leach	Solid	SM 2510B	236722
180-74122-18	AP 2-S - PH 7.0	Leach	Solid	SM 2510B	236722
180-74122-20	AP 2-S - PH 4.0	Leach	Solid	SM 2510B	236722
MB 180-237425/2	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-237425/1	Lab Control Sample	Total/NA	Solid	SM 2510B	

Analysis Batch: 237531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	EPA 9040C	237381
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	EPA 9040C	237381
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	EPA 9040C	237381
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	EPA 9040C	237381
LCS 180-237531/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	

Analysis Batch: 237550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	SM 2580B	237381
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	SM 2580B	237381
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	SM 2580B	237381
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	SM 2580B	237381
LCS 180-237550/1	Lab Control Sample	Total/NA	Solid	SM 2580B	

Analysis Batch: 237553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	SM 2510B	237381
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	SM 2510B	237381
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	SM 2510B	237381
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	SM 2510B	237381
MB 180-237553/2	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-237553/1	Lab Control Sample	Total/NA	Solid	SM 2510B	

Leach Batch: 237733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-1	AP 3-S - PRETEST	Leach	Solid	1313	
180-74122-1	AP 3-S - PRETEST	Leach	Solid	1313	
180-74122-12	AP 2-S - PRETEST	Leach	Solid	1313	
180-74122-12	AP 2-S - PRETEST	Leach	Solid	1313	

Analysis Batch: 237737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-1	AP 3-S - PRETEST	Leach	Solid	EPA 9040C	237733
180-74122-1	AP 3-S - PRETEST	Leach	Solid	EPA 9040C	237733
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	EPA 9040C	237165

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

General Chemistry (Continued)

Analysis Batch: 237737 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-12	AP 2-S - PRETEST	Leach	Solid	EPA 9040C	237733
180-74122-12	AP 2-S - PRETEST	Leach	Solid	EPA 9040C	237733
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	EPA 9040C	237165
LCS 180-237737/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	

Analysis Batch: 237751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	SM 2580B	237165
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	SM 2580B	237165
LCS 180-237751/1	Lab Control Sample	Total/NA	Solid	SM 2580B	

Analysis Batch: 237752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-3	AP 3-S - PH 12.0	Leach	Solid	SM 2510B	237165
180-74122-14	AP 2-S - PH 12.0	Leach	Solid	SM 2510B	237165
MB 180-237752/2	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-237752/1	Lab Control Sample	Total/NA	Solid	SM 2510B	

Leach Batch: 237761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	1313	
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	1313	

Analysis Batch: 237772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	EPA 9040C	237761
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	EPA 9040C	237761
LCS 180-237772/1	Lab Control Sample	Total/NA	Solid	EPA 9040C	

Analysis Batch: 237774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	SM 2580B	237761
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	SM 2580B	237761
LCS 180-237774/1	Lab Control Sample	Total/NA	Solid	SM 2580B	

Analysis Batch: 237776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	SM 2510B	237761
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	SM 2510B	237761
MB 180-237776/2	Method Blank	Total/NA	Solid	SM 2510B	
LCS 180-237776/1	Lab Control Sample	Total/NA	Solid	SM 2510B	

Analysis Batch: 237940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-4	AP 3-S - PH 10.5	Leach	Solid	SM 2540C	237381
180-74122-10	AP 3-S - PH 2.0	Leach	Solid	SM 2540C	237381
180-74122-15	AP 2-S - PH 10.5	Leach	Solid	SM 2540C	237381
180-74122-21	AP 2-S - PH 2.0	Leach	Solid	SM 2540C	237381
MB 180-237940/2	Method Blank	Total/NA	Solid	SM 2540C	
LCS 180-237940/1	Lab Control Sample	Total/NA	Solid	SM 2540C	
180-74122-10 DU	AP 3-S - PH 2.0	Leach	Solid	SM 2540C	237381

TestAmerica Pittsburgh

QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Midwest Generation

TestAmerica Job ID: 180-74122-1

General Chemistry (Continued)

Analysis Batch: 237940 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-21 DU	AP 2-S - PH 2.0	Leach	Solid	SM 2540C	237381

Analysis Batch: 238055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-74122-8	AP 3-S - PH 5.5	Leach	Solid	SM 2540C	237761
180-74122-19	AP 2-S - PH 5.5	Leach	Solid	SM 2540C	237761
MB 180-238055/2	Method Blank	Total/NA	Solid	SM 2540C	
LCS 180-238055/1	Lab Control Sample	Total/NA	Solid	SM 2540C	

ORIGIN ID: RRLA
SHIPPING
TESTAMERICA
4125 N 124TH ST

BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 11-
ACTWGT: 41.65
CAD: 525155/CF

BILL RECIPIENT

TO **SAMPLE RECEIPT**
TESTAMERICA
301 ALPHA DR.

PITTSBURGH PA 15238

(412) 963-7068

REF:



TRK# 7125 4937 5449
0201

FRI - 12 JAN
PRIORITY OVERNIGHT

02/18 **NA AGCA**

15238
PA-US PIT

Uncorrected temp
Thermometer ID

1.3 / 0.8 °C
11.

CF -0.5

Initials

TB

PT-WI-SR-001 effective 7/26/13

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 180-74122-1

Login Number: 74122

List Number: 1

Creator: Neri, Tom

List Source: TestAmerica Pittsburgh

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



ATTACHMENT 3
Groundwater Flow Direction and Estimated Seepage Velocity
Table

Table 2. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Will County Generation Station.

DATE	Groundwater Flow Direction	K _{avg} (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
11/9/2015	West	4.320E-04	0.0053	0.2	0.99
2/16/2016	West	4.320E-04	0.0030	0.2	0.55
5/24/2016	West	4.320E-04	0.0030	0.2	0.55
8/9/2016	West	4.320E-04	0.0030	0.2	0.55
10/25/2016	West	4.320E-04	0.0030	0.2	0.55
1/31/2017	West	4.320E-04	0.0030	0.2	0.55
5/9/2017	West	4.320E-04	0.0045	0.2	0.84
6/27/2017	West	4.320E-04	0.0049	0.2	0.91
9/6/2017	West	4.320E-04	0.0047	0.2	0.88
11/16/2017	West	4.320E-04	0.0026	0.2	0.49
5/1/2018	West	4.320E-04	0.0025	0.2	0.46
10/2/2018	West	4.320E-04	0.0040	0.2	0.75
5/28/2019	West	4.320E-04	0.0027	0.2	0.50
12/5/2019	West	4.320E-04	0.0027	0.2	0.50
5/22/2020	West	4.320E-04	0.0029	0.2	0.54
11/3/2020	West	4.320E-04	0.0074	0.2	1.37
5/24/2021	West	2.315E-04	0.0049	0.2	0.49
11/19/2021	West	2.315E-04	0.0047	0.2	0.47

* 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 estimate from Groundwater, Freeze and Cherry, 1979.

ATTACHMENT 4
Statistical Trend Analysis for Chloride Concentrations

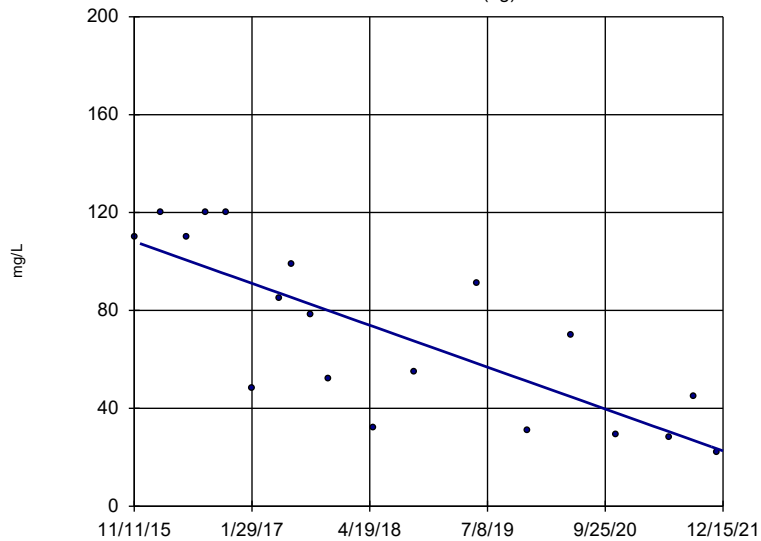
Trend Test Will Co. 2S/3S Chloride - All Wells

Will County Generating Station Client: NRG Data: Will County Printed 3/19/2022, 12:49 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	MW-05 (bg)	-14.04	-5.208	-2.224	Yes	19	0	Yes	no	0.02	Param.
Chloride (mg/L)	MW-06 (bg)	-0.1193	-3.002	-2.224	Yes	19	0	Yes	natura...	0.02	Param.
Chloride (mg/L)	MW-09	20.56	2.458	2.224	Yes	19	0	Yes	no	0.02	Param.
Chloride (mg/L)	MW-10	0.01867	0.6099	2.224	No	19	0	Yes	natura...	0.02	Param.
Chloride (mg/L)	MW-11	9.969	5.617	2.224	Yes	19	0	Yes	no	0.02	Param.
Chloride (mg/L)	MW-12	0.9938	0.152	2.224	No	19	0	Yes	no	0.02	Param.

Linear Regression

MW-05 (bg)

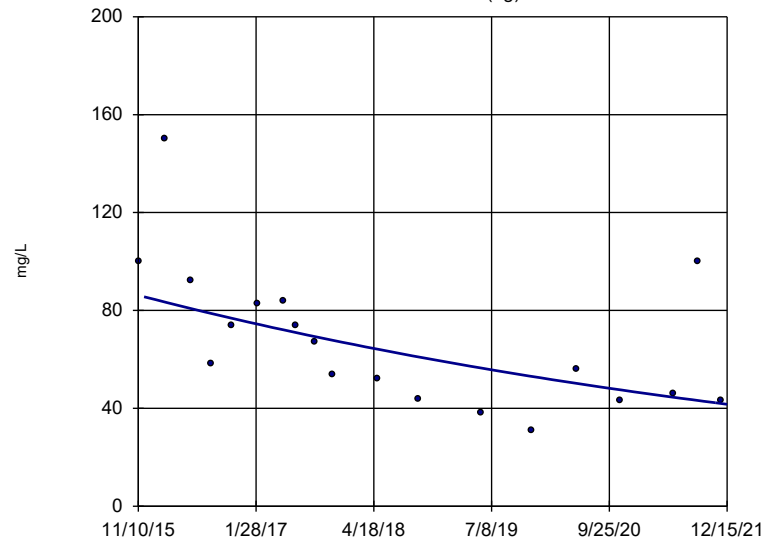


n = 19
 Slope = -14.04 units/year.
 alpha = 0.02
 t = -5.208
 critical = -2.224
 Significant decreasing trend.
 Normality test on residuals:
 Shapiro Wilk @alpha = 0.01, calculated = 0.9504, critical = 0.863.

Constituent: Chloride Analysis Run 3/19/2022 12:47 PM
 Will County Generating Station Client: NRG Data: Will County

Linear Regression

MW-06 (bg)

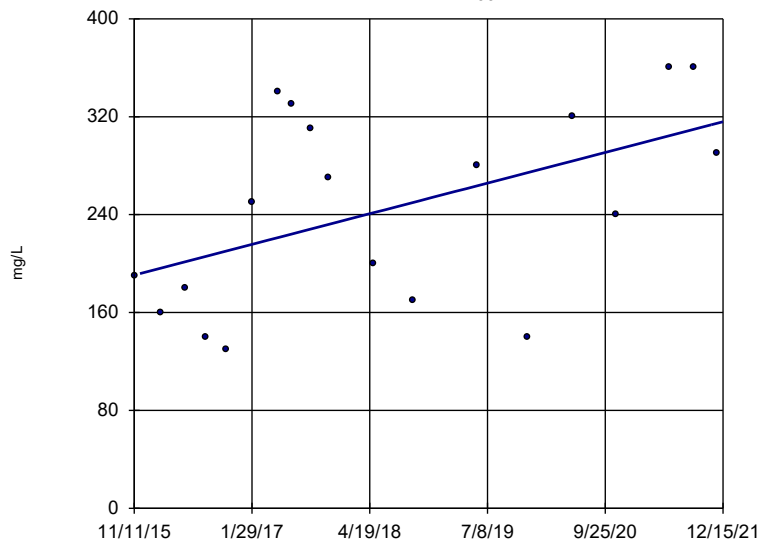


n = 19
 Slope = -0.1193 natural log units/year.
 alpha = 0.02
 t = -3.002
 critical = -2.224
 Significant decreasing trend.
 Normality test on residuals:
 Shapiro Wilk @alpha = 0.01, calculated = 0.9228 after natural log transformation, critical = 0.863.

Constituent: Chloride Analysis Run 3/19/2022 12:47 PM
 Will County Generating Station Client: NRG Data: Will County

Linear Regression

MW-09

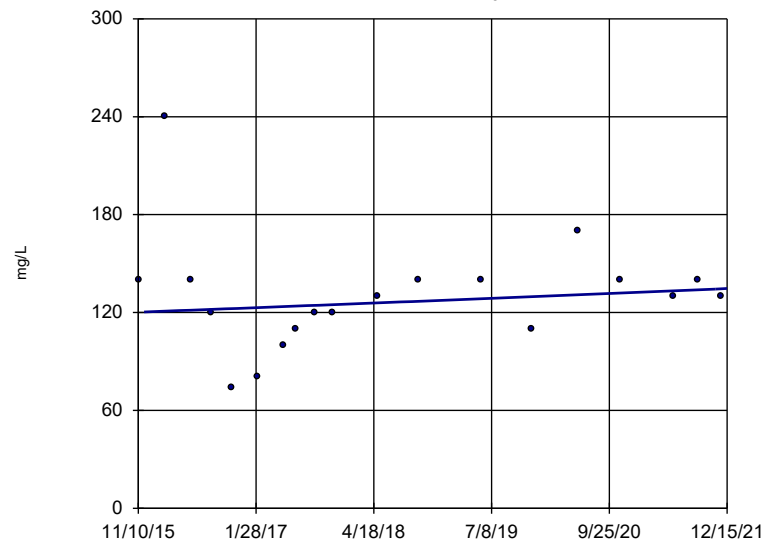


n = 19
 Slope = 20.56 units/year.
 alpha = 0.02
 t = 2.458
 critical = 2.224
 Significant increasing trend.
 Normality test on residuals:
 Shapiro Wilk @alpha = 0.01, calculated = 0.98, critical = 0.863.

Constituent: Chloride Analysis Run 3/19/2022 12:47 PM
 Will County Generating Station Client: NRG Data: Will County

Linear Regression

MW-10

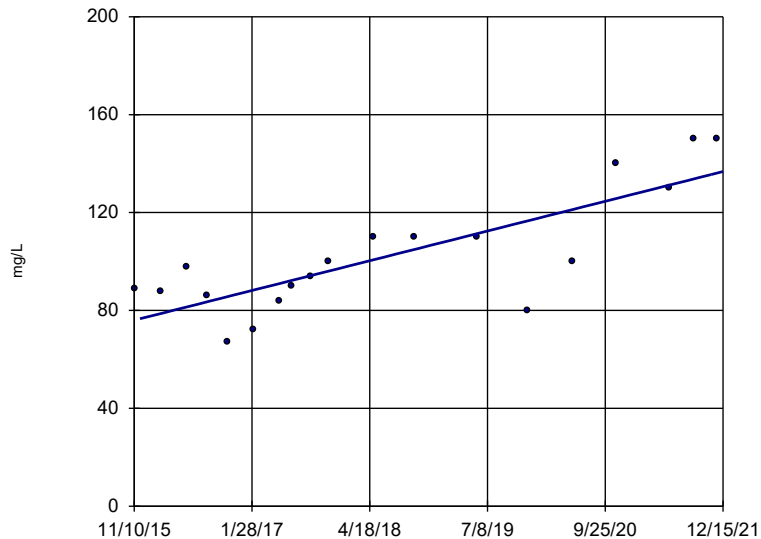


n = 19
 Slope = 0.01867 natural log units/year.
 alpha = 0.02
 t = 0.6099
 critical = 2.224
 No significant trend.
 Normality test on residuals:
 Shapiro Wilk @alpha = 0.01, calculated = 0.9156 after natural log transformation, critical = 0.863.

Constituent: Chloride Analysis Run 3/19/2022 12:47 PM
 Will County Generating Station Client: NRG Data: Will County

Linear Regression

MW-11

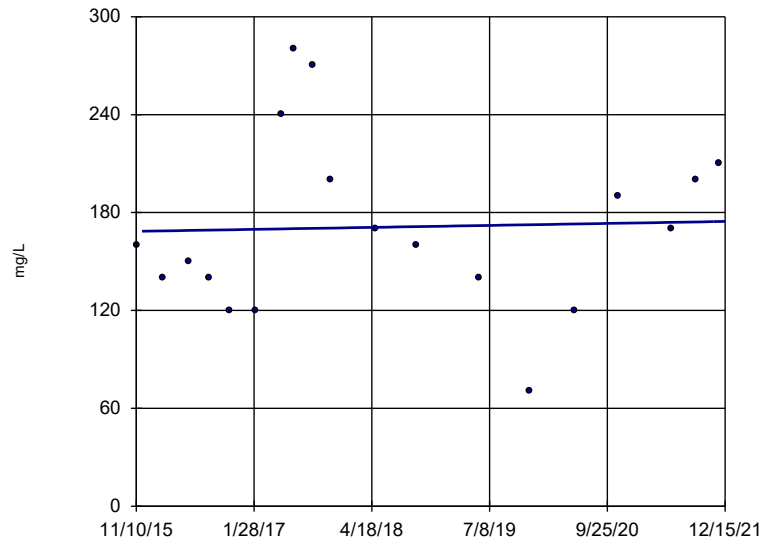


n = 19
 Slope = 9.969
 units/year.
 alpha = 0.02
 t = 5.617
 critical = 2.224
 Significant increasing trend.
 Normality test on residuals:
 Shapiro Wilk @alpha
 = 0.01, calculated
 = 0.9069, critical
 = 0.863.

Constituent: Chloride Analysis Run 3/19/2022 12:47 PM
 Will County Generating Station Client: NRG Data: Will County

Linear Regression

MW-12



n = 19
 Slope = 0.9938
 units/year.
 alpha = 0.02
 t = 0.152
 critical = 2.224
 No significant trend.
 Normality test on residuals:
 Shapiro Wilk @alpha
 = 0.01, calculated
 = 0.9588, critical
 = 0.863.

Constituent: Chloride Analysis Run 3/19/2022 12:47 PM
 Will County Generating Station Client: NRG Data: Will County