



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

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

**Midwest Generation, LLC
Waukegan Station
401 E. Greenwood Avenue
Waukegan, Illinois**

Prepared By: **KPRG and Associates, Inc.
14665 West Lisbon Road, Suite 1A
Brookfield, WI 53005**

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) Waukegan Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for the West and East Ash Ponds. The CCR monitoring well network around these ponds consists of eight monitoring wells (MW-01 through MW-04, MW-09, MW-11, MW-14 and MW-16). Wells MW-09, MW-11 and MW-14 are upgradient wells as shown on Figure 1.

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 continues to operate under the detection monitoring program outlined in Section 257.94.
- Section 257.90(e)(6)(iii) – The following statistically significant increases (SSIs) above established background for Appendix III detection monitoring constituents were noted during this monitoring period:
 - MW-01 – boron and pH (all sampling events).
 - MW-02 – boron (2nd through 4th quarters); pH (1st and 2nd quarter); sulfate (4th quarter).
 - MW-03 – boron (1st, 2nd and 4th quarters).
 - MW-04 – boron (all sampling events).
 - MW-16 – boron and sulfate (all sampling events).

These constituent SSIs have been addressed previously under Alternate Source Demonstrations (ASDs) with determination being made that the SSIs are not associated with a release from the regulated units. The detections of these parameters during the 2022 sampling were within similar ranges as previous sampling events.

- Section 257.90(e)(6)(iv) – The subject units are not under assessment monitoring.

- Section 257.90(e)(6)(v) – The subject units are not under corrective action.
- Section 257.90(e)(6)(vi) – The subject units are not under corrective action.

1.0 INTRODUCTION

The 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 completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Waukegan Generating Station. The wells sampled were selected to meet the monitoring requirements of the CCR Rule for both the West and East Ash Ponds. The CCR monitoring well network around these ponds consists of eight monitoring wells (MW-01 through MW-04, MW-09, MW-11, MW-14 and MW-16). Wells MW-09, MW-11 and MW-14 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. It is prepared in accordance with Section 257.90(e)(1-6) and summarizes the sampling procedures used, provides an evaluation of groundwater flow conditions, summarizes the analytical data generated, and summarizes conclusions and recommendations for the station going forward.

2.0 FIELD PROCEDURES AND GROUNDWATER FLOW EVALUATION

2.1 Field Procedures

As previously noted, the CCR groundwater monitoring network around the ash ponds at this facility consists of eight wells (MW-01, MW-02, MW-03, MW-04, MW-09, MW-11, MW-14 and MW-16) as shown on Figure 1. As part of sampling procedures, the integrity of all monitoring wells was inspected and water levels were obtained using an electronic water level meter (see summary of water level discussion below). All wells were found in 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 monitoring wells during each round of groundwater sampling. A complete round of water levels was collected prior to initiating sampling, and the water level data are summarized in Table 1. It is noted that water levels were also concurrently measured at other monitoring well locations in the area that are not part of the CCR monitoring network. The full set of 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 east to southeasterly groundwater flow direction beneath the ash ponds. 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 4.04×10^{-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 completed for the East and West Ash Ponds. The Patrick

Engineering slug test data were re-evaluated as part of the modeling exercise and a modified hydraulic geometric mean of 1.79×10^{-3} 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 2022 is provided in Table 3, in accordance with 257.90(e)(3). Analytical data packages are included in Appendix A.

3.2 Data Summary

The analytical data from the detection monitoring groundwater sampling for Appendix III parameters are provided in Table 4. Quarterly groundwater sampling was completed for Appendix III in 2022 which exceeds the minimum detection monitoring requirements under Section 257.94. The table includes the sample dates and whether the specific well is considered upgradient or downgradient relative to groundwater flow and the regulated unit. Table 4 also 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 parameters which were part of the Alternate Source Demonstrations (see 2018 and 2019 CCR Compliance Reports).

The following downgradient monitoring well SSIs above established background for Appendix III detection monitoring constituents were noted during this monitoring period:

- MW-01 – boron and pH (all sampling events).
- MW-02 – boron (2nd, 3rd and 4th quarters); pH (1st and 2nd quarters); sulfate (4th quarter).
- MW-03 – boron (1st, 2nd and 4th quarters).
- MW-04 – boron (all sampling events).
- MW-16 – boron and sulfate (all sampling events).

These constituent SSIs have been addressed previously under previously submitted ASDs with determination being made that the SSIs are not associated with a release from the regulated units. The detections of these parameters during the 2022 sampling were within similar ranges as previous sampling events.

3.3 Current Status

Since the noted SSIs for boron, sulfate and pH were previously addressed under a successful ASD, the station remains in detection monitoring.

4.0 SUMMARY/CONCLUSIONS AND RECOMMENDATIONS

The detection monitoring requirements in accordance with the CCR Rule have been successfully met. At this time, it is recommended that the station stay in detection monitoring in accordance with Section 257.94.

5.0 REFERENCES

- Federal Register, Environmental Protection Agency, 40 CFR Parts 257 and 261, Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals From Electric Utilities; Final Rule. Vol. 80, No. 74, Friday April 17, 2015.
- Patrick Engineering, Inc., Hydrogeologic Assessment Report – Waukegan Generating Station, Waukegan, IL. February 2011.
- KPRG and Associates, Inc., CCR Compliance Monitoring, Sampling and Analysis Plan, Midwest Generation, LLC Waukegan Generating Station. October 10, 2017.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2018, Midwest Generation, LLC Waukegan Generating Station. January 31, 2019.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2019, Midwest Generation, LLC Waukegan Generating Station. January 31, 2020.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2020, Midwest Generation, LLC Waukegan Generating Station. January 31, 2021.
- KPRG and Associates, Inc., CCR Compliance Annual Groundwater Monitoring and Corrective Action Report - 2021, Midwest Generation, LLC Waukegan Generating Station. January 31, 2022.
- C.W. Fetter, Jr., Applied Hydrogeology. Charles E. Merrill Publishing Co., 1980.

FIGURES



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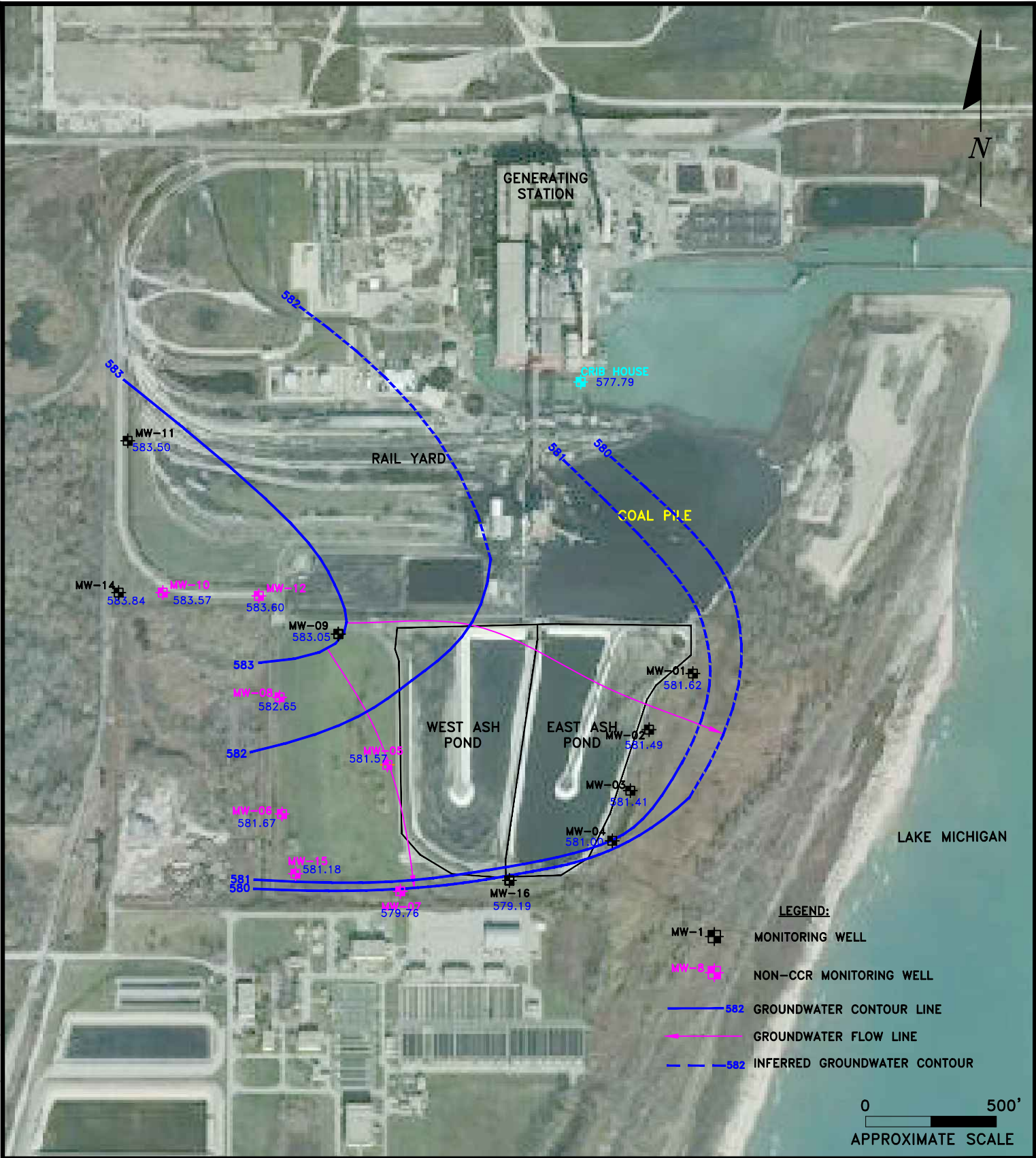
CCR MONITORING WELL SITE MAP

**WAUKEGAN STATION
WAUKEGAN, ILLINOIS**

Scale: 1" = 550' Date: January 2, 2018

KPRG Project No. 12313.2

FIGURE 1



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CCR GROUNDWATER CONTOUR MAP 1Q2022

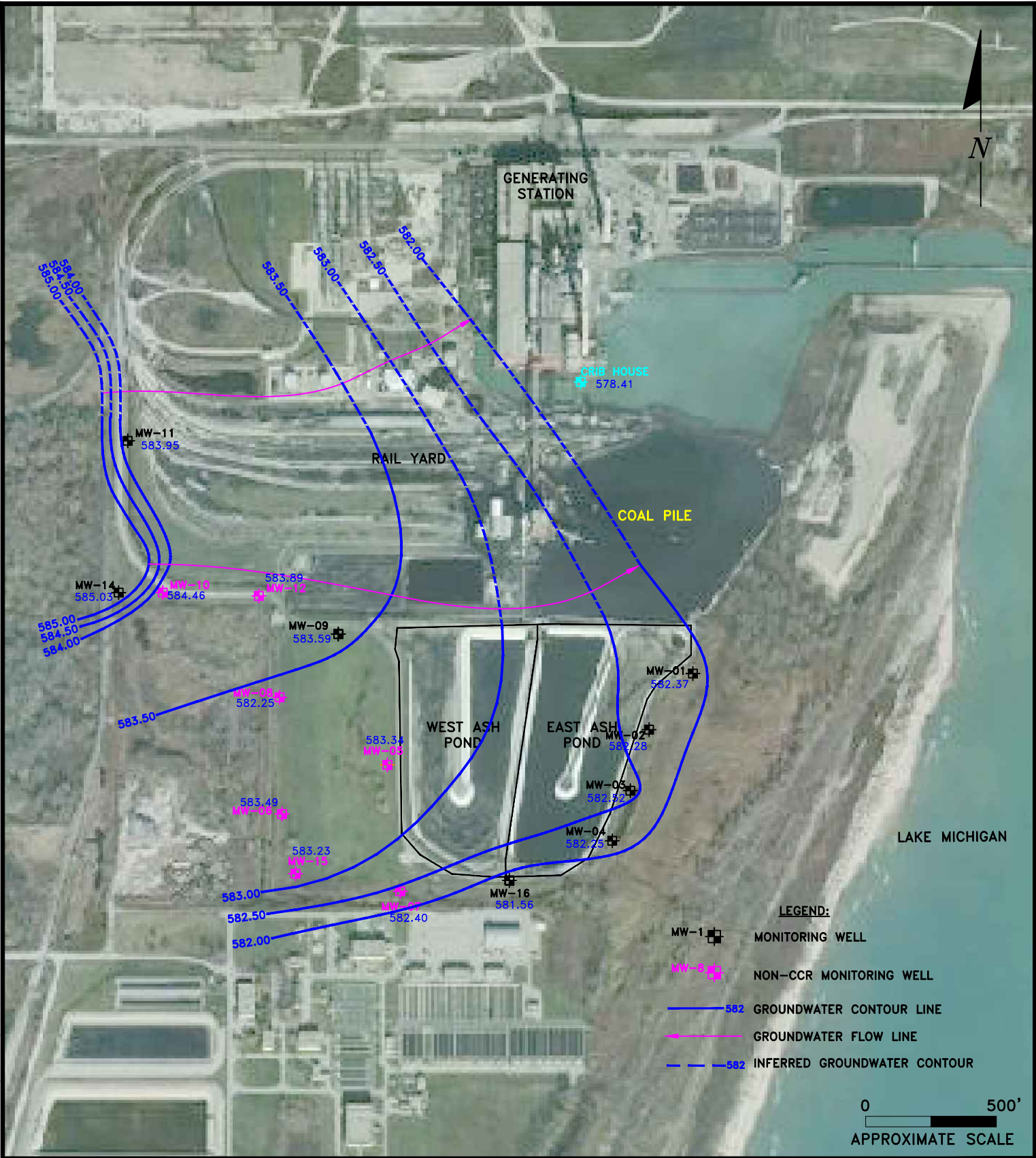
WAUKEGAN STATION
WAUKEGAN, ILLINOIS

Scale: 1" = 500'

Date: January 17, 2023

KPRG Project No. 12313.2

FIGURE 2



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CCR GROUNDWATER CONTOUR MAP 2Q2022

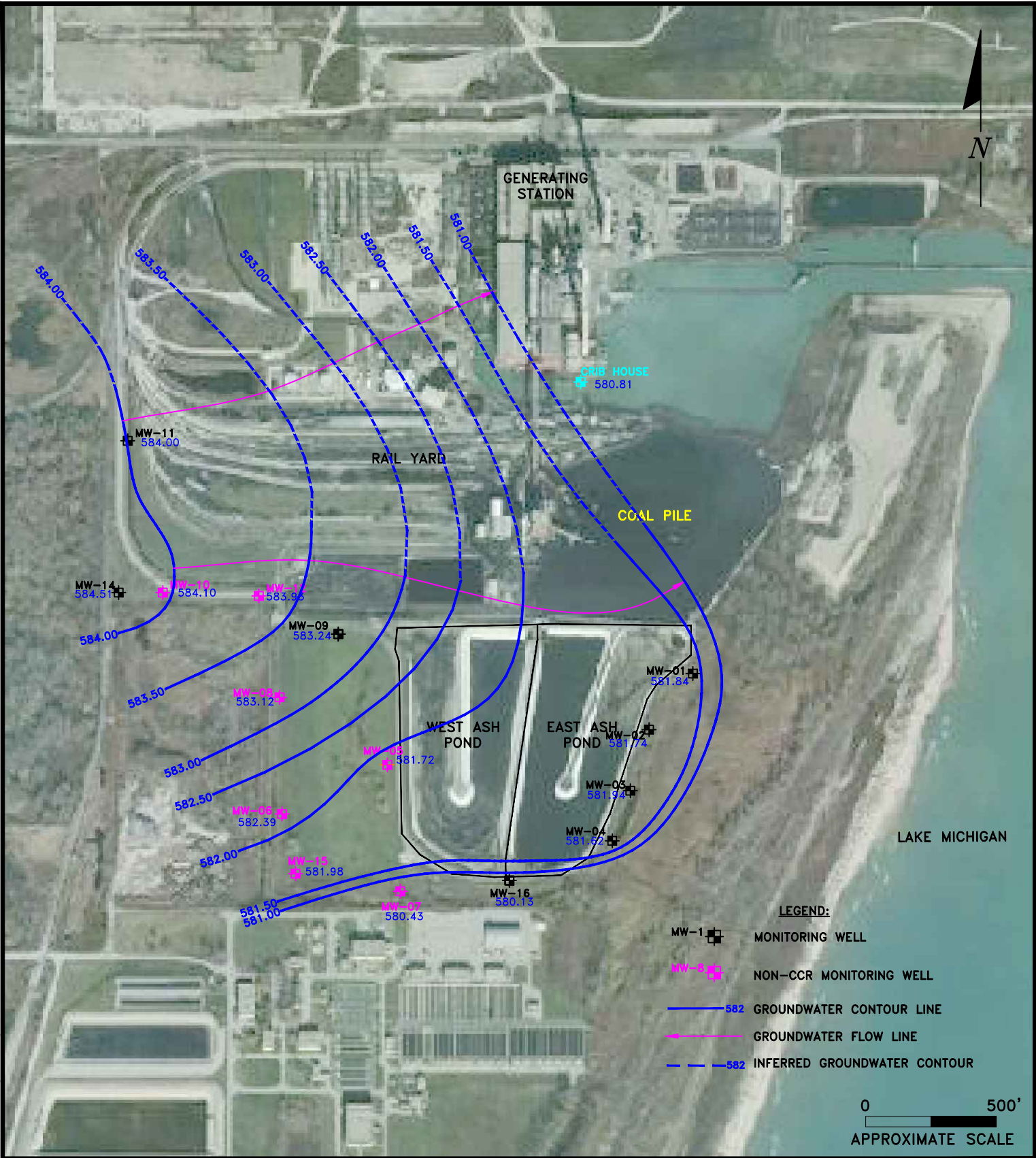
**WAUKEGAN STATION
WAUKEGAN, ILLINOIS**

Scale: 1" = 500'

Date: January 17, 2023

KPRG Project No. 12313.2

FIGURE 3



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CCR GROUNDWATER CONTOUR MAP 3Q2022

**WAUKEGAN STATION
WAUKEGAN, ILLINOIS**

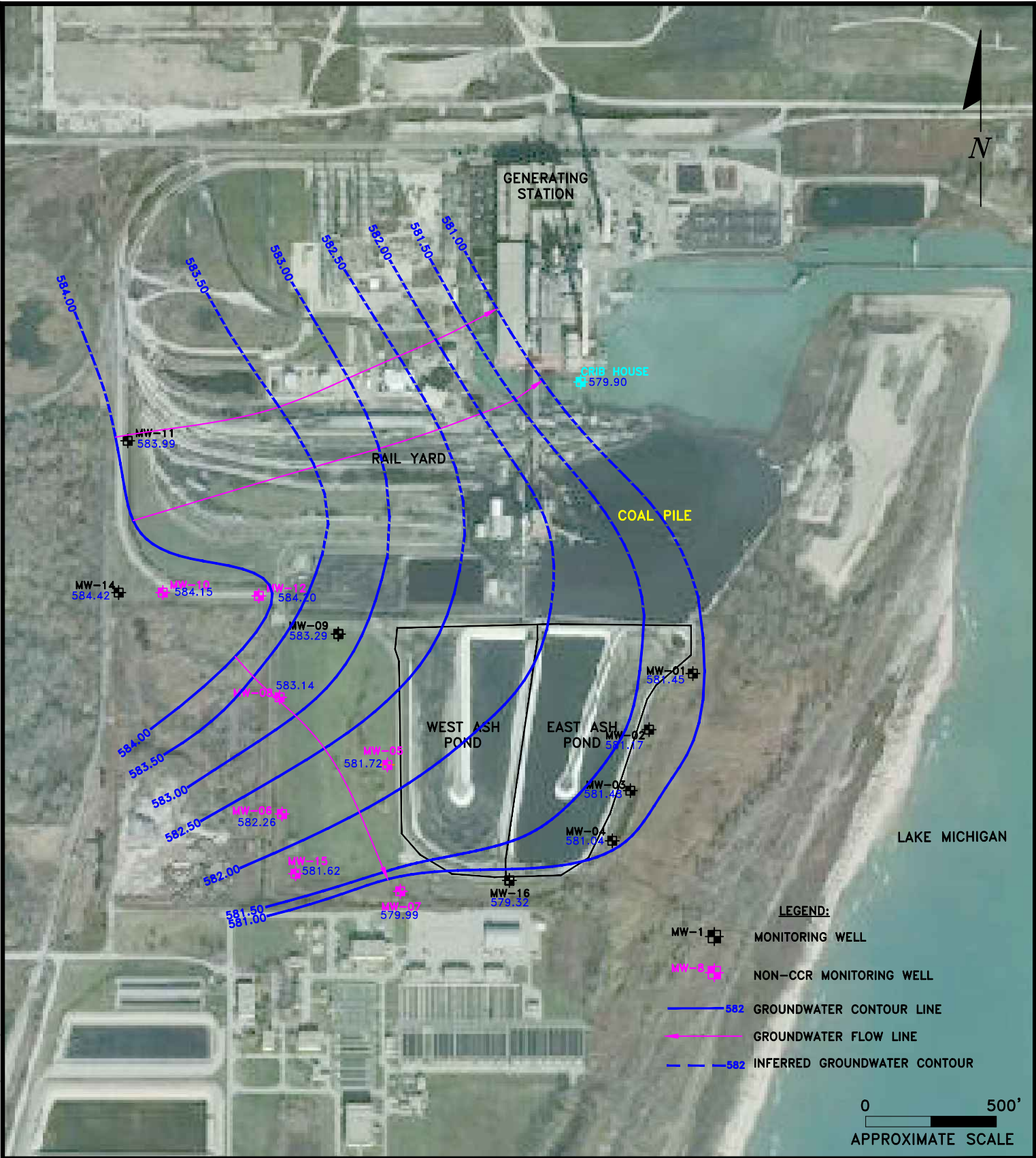
Scale: 1" = 500'

Date: January 17, 2023

KPRG Project No. 12313.2

FIGURE 4

Commonwealth of Illinois Department of Environmental Protection, Division of Environmental Quality, Waukegan Station, CCR Groundwater Contour Map 3Q2022



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CCR GROUNDWATER CONTOUR MAP 4Q2022

**WAUKEGAN STATION
WAUKEGAN, ILLINOIS**

Scale: 1" = 500'

Date: January 17, 2023

KPRG Project No. 12313.2

FIGURE 5

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TABLES

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

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-01	11/2/2015	603.12	20.75	582.37
	2/29/2016	603.12	20.71	582.41
	5/2/2016	603.12	20.89	582.23
	8/23/2016	603.12	22.01	581.11
	12/2/2016	603.62	22.27	581.35
	2/21/2017	603.62	22.42	581.20
	5/15/2017	603.62	20.52	583.10
	7/5/2017	603.62	21.81	581.81
	9/11/2017	603.62	21.47	582.15
	11/27/2017	603.62	21.82	581.80
	5/29/2018	603.62	19.43	584.19
	11/5/2018	603.62	20.45	583.17
	5/14/2019	603.62	19.81	583.81
	11/18/2019	603.62	19.89	583.73
	4/21/2020	603.62	20.81	582.81
	11/17/2020	603.62	21.51	582.11
	3/1/2021	603.62	21.19	582.43
	3/30/2021	603.62	21.34	582.28
	5/5/2021	603.62	21.76	581.86
	5/27/2021	603.62	21.78	581.84
	6/18/2021	603.62	21.90	581.72
	7/8/2021	603.62	21.75	581.87
	8/18/2021	603.62	21.82	581.80
	9/29/2021	603.62	22.22	581.40
	10/12/2021	603.62	21.65	581.97
	11/3/2021	603.62	21.45	582.17
	12/14/2021	603.62	21.52	582.10
	1/12/2022	603.62	21.73	581.89
	2/8/2022	603.62	22.00	581.62
	3/10/2022	603.62	21.67	581.95
	4/14/2022	603.62	22.27	581.35
	5/23/2022	603.62	21.25	582.37
6/28/2022	603.62	21.80	581.82	
7/18/2022	603.62	22.00	581.62	
8/22/2022	603.62	21.78	581.84	
9/26/2022	603.62	21.75	581.87	
10/3/2022	603.62	21.95	581.67	
11/7/2022	603.62	22.17	581.45	
12/15/2022	603.62	21.90	581.72	
MW-02	11/2/2015	603.04	20.71	582.33
	2/29/2016	603.04	20.59	582.45
	5/2/2016	603.04	20.82	582.22
	8/23/2016	603.04	22.04	581.00
	12/2/2016	603.39	22.13	581.26
	2/21/2017	603.39	22.24	581.15
	5/15/2017	603.39	20.25	583.14
	7/5/2017	603.39	21.59	581.80
	9/11/2017	603.39	21.21	582.18
	11/27/2017	603.39	21.63	581.76
	5/29/2018	603.39	19.12	584.27
	11/5/2018	603.39	20.19	583.20
	5/14/2019	603.39	19.55	583.84
	11/18/2019	603.39	19.60	583.79
	4/21/2020	603.39	20.57	582.82
	11/17/2020	603.39	21.32	582.07
	3/1/2021	603.39	21.04	582.35
	3/30/2021	603.39	21.13	582.26
	5/5/2021	603.39	21.56	581.83
	5/27/2021	603.39	21.60	581.79
	6/18/2021	603.39	21.65	581.74
	7/8/2021	603.39	21.48	581.91
	8/18/2021	603.39	21.56	581.83
	9/29/2021	603.39	22.00	581.39
	10/12/2021	603.39	21.50	581.89
	11/3/2021	603.39	21.26	582.13
	12/14/2021	603.39	21.40	581.99
	1/12/2022	603.39	21.65	581.74
	2/8/2022	603.39	21.90	581.49
	3/10/2022	603.39	21.55	581.84
	4/14/2022	603.39	22.10	581.29
	5/23/2022	603.39	21.11	582.28
6/28/2022	603.39	21.60	581.79	
7/18/2022	603.39	21.80	581.59	
8/22/2022	603.39	21.65	581.74	
9/26/2022	603.39	21.50	581.89	
10/3/2022	603.39	21.75	581.64	
11/7/2022	603.39	22.22	581.17	
12/15/2022	603.39	21.75	581.64	

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

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-03	11/2/2015	602.91	20.37	582.54
	2/29/2016	602.91	20.43	582.48
	5/2/2016	602.91	20.66	582.25
	8/23/2016	602.91	22.12	580.79
	12/2/2016	603.70	22.52	581.18
	2/21/2017	603.70	22.64	581.06
	5/15/2017	603.70	20.55	583.15
	7/5/2017	603.70	21.92	581.78
	9/11/2017	603.70	21.55	582.15
	11/28/2017	603.70	21.96	581.74
	5/29/2018	603.70	19.40	584.30
	11/5/2018	603.70	20.48	583.22
	5/14/2019	603.70	19.80	583.90
	11/18/2019	603.70	20.05	583.65
	4/21/2020	603.70	20.82	582.88
	11/17/2020	603.70	21.60	582.10
	3/1/2021	603.70	21.30	582.40
	3/30/2021	603.70	21.40	582.30
	5/5/2021	603.70	21.83	581.87
	5/27/2021	603.70	21.85	581.85
	6/18/2021	603.70	21.91	581.79
	7/8/2021	603.70	21.71	581.99
	8/18/2021	603.70	21.80	581.90
	9/29/2021	603.70	22.30	581.40
	10/12/2021	603.70	21.70	582.00
	11/3/2021	603.70	21.53	582.17
	12/14/2021	603.70	21.60	582.10
	1/12/2022	603.70	21.97	581.73
	2/8/2022	603.70	22.29	581.41
	3/10/2022	603.70	21.50	582.20
4/14/2022	603.70	22.30	581.40	
5/23/2022	603.70	21.18	582.52	
6/28/2022	603.70	21.85	581.85	
7/18/2022	603.70	22.10	581.60	
8/22/2022	603.70	21.76	581.94	
9/26/2022	603.70	21.70	582.00	
10/3/2022	603.70	22.00	581.70	
11/7/2022	603.70	22.22	581.48	
12/15/2022	603.70	22.20	581.50	
MW-04	11/2/2015	603.19	20.83	582.36
	2/29/2016	603.19	20.70	582.49
	5/2/2016	603.19	20.94	582.25
	8/23/2016	603.19	22.69	580.50
	12/2/2016	603.17	22.18	580.99
	2/21/2017	603.17	22.36	580.81
	5/15/2017	603.17	20.04	583.13
	7/5/2017	603.17	21.46	581.71
	9/11/2017	603.17	21.05	582.12
	11/28/2017	603.17	21.54	581.63
	5/30/2018	603.17	18.88	584.29
	11/6/2018	603.17	19.96	583.21
	5/14/2019	603.17	19.35	583.82
	11/18/2019	603.17	19.36	583.81
	4/21/2020	603.17	20.40	582.77
	11/18/2020	603.17	21.23	581.94
	3/1/2021	603.17	20.95	582.22
	3/30/2021	603.17	21.02	582.15
	5/5/2021	603.17	21.52	581.65
	5/27/2021	603.17	21.55	581.62
	6/18/2021	603.17	21.62	581.55
	7/8/2021	603.17	21.45	581.72
	8/18/2021	603.17	21.49	581.68
	9/29/2021	603.17	22.08	581.09
	10/12/2021	603.17	21.55	581.82
	11/3/2021	603.17	21.15	582.02
	12/14/2021	603.17	21.40	581.77
	1/12/2022	603.17	21.72	581.45
	2/8/2022	603.17	22.17	581.00
	3/10/2022	603.17	21.73	581.44
4/14/2022	603.17	22.08	581.09	
5/23/2022	603.17	20.92	582.25	
6/28/2022	603.17	21.55	581.62	
7/18/2022	603.17	21.80	581.37	
8/22/2022	603.17	21.55	581.62	
9/26/2022	603.17	21.40	581.77	
10/3/2022	603.17	21.70	581.47	
11/7/2022	603.17	22.13	581.04	
12/15/2022	603.17	22.05	581.12	

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

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-09	11/2/2015	594.00	9.78	584.22
	2/29/2016	594.00	9.89	584.11
	5/2/2016	594.00	9.59	584.41
	8/23/2016	594.00	10.58	583.42
	12/2/2016	594.00	10.27	583.73
	2/21/2017	594.00	10.21	583.79
	5/15/2017	594.00	9.57	584.43
	7/6/2017	594.00	9.81	584.19
	9/11/2017	594.00	10.25	583.75
	11/29/2017	594.00	9.98	584.02
	5/31/2018	594.00	9.38	584.62
	11/6/2018	594.00	9.52	584.48
	5/14/2019	594.00	9.50	584.50
	11/18/2019	594.00	9.62	584.38
	4/21/2020	594.00	9.84	584.16
	11/18/2020	594.00	10.83	583.17
	3/1/2021	594.00	9.90	584.10
	3/30/2021	594.00	10.46	583.54
	5/5/2021	594.00	10.80	583.20
	5/27/2021	594.00	10.92	583.08
	6/18/2021	594.00	11.25	582.75
	7/8/2021	594.00	10.82	583.18
	8/18/2021	594.00	10.99	583.01
	9/29/2021	594.00	11.82	582.18
	10/12/2021	594.00	10.94	583.06
	11/3/2021	594.00	10.53	583.47
	12/14/2021	594.00	10.60	583.40
	1/12/2022	594.00	10.70	583.30
	2/8/2022	594.00	10.95	583.05
	3/10/2022	594.00	10.62	583.38
4/14/2022	594.00	11.82	582.18	
5/23/2022	594.00	10.41	583.59	
6/28/2022	594.00	10.80	583.20	
7/18/2022	594.00	10.80	583.20	
8/22/2022	594.00	10.76	583.24	
9/26/2022	594.00	10.60	583.40	
10/3/2022	594.00	9.70	584.30	
11/7/2022	594.00	10.71	583.29	
12/15/2022	594.00	10.30	583.70	
MW-11	11/2/2015	590.35	5.27	585.08
	2/29/2016	590.35	5.54	584.81
	5/2/2016	590.35	5.17	585.18
	8/23/2016	590.35	6.04	584.31
	12/2/2016	590.35	5.86	584.49
	2/21/2017	590.35	5.87	584.48
	5/15/2017	590.35	5.33	585.02
	7/6/2017	590.35	5.62	584.73
	9/11/2017	590.35	5.61	584.74
	11/30/2017	590.35	5.68	584.67
	5/31/2018	590.35	5.41	584.94
	11/6/2018	590.35	5.29	585.06
	5/14/2019	590.35	5.55	584.80
	11/18/2019	590.35	5.80	584.55
	4/21/2020	590.35	5.85	584.50
	11/19/2020	590.35	6.66	583.69
	3/1/2021	590.35	5.46	584.89
	3/30/2021	590.35	6.54	583.81
	5/5/2021	590.35	6.81	583.54
	5/27/2021	590.35	6.76	583.59
	6/18/2021	590.35	6.75	583.60
	7/8/2021	590.35	6.72	583.63
	8/18/2021	590.35	6.90	583.45
	9/29/2021	590.35	7.40	582.95
	10/12/2021	590.35	6.77	583.58
	11/3/2021	590.35	6.61	583.74
	12/14/2021	590.35	6.61	583.74
	1/12/2022	590.35	6.68	583.67
	2/8/2022	590.35	6.85	583.50
	3/10/2022	590.35	6.30	584.05
4/14/2022	590.35	7.40	582.95	
5/23/2022	590.35	6.40	583.95	
6/28/2022	590.35	6.65	583.70	
7/18/2022	590.35	6.60	583.75	
8/22/2022	590.35	6.35	584.00	
9/26/2022	590.35	5.50	584.85	
10/3/2022	590.35	6.40	583.95	
11/7/2022	590.35	6.36	583.99	
12/15/2022	590.35	5.90	584.45	

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

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-14	11/2/2015	590.24	5.17	585.07
	2/29/2016	590.24	5.01	585.23
	5/2/2016	590.24	4.49	585.75
	8/23/2016	590.24	6.07	584.17
	12/2/2016	590.24	5.49	584.75
	2/21/2017	590.24	5.33	584.91
	5/15/2017	590.24	4.67	585.57
	7/6/2017	590.24	5.27	584.97
	9/11/2017	590.24	5.78	584.46
	11/30/2017	590.24	5.19	585.05
	6/1/2018	590.24	4.45	585.79
	11/6/2018	590.24	4.32	585.92
	5/14/2019	590.24	4.20	586.04
	11/18/2019	590.24	4.75	585.49
	4/21/2020	590.24	5.00	585.24
	11/19/2020	590.24	5.98	584.26
	3/1/2021	590.24	4.55	585.69
	3/30/2021	590.24	5.60	584.64
	5/5/2021	590.24	6.20	584.04
	5/27/2021	590.24	6.32	583.92
	6/18/2021	590.24	6.60	583.64
	7/8/2021	590.24	6.15	584.09
	8/18/2021	590.24	6.45	583.79
	9/29/2021	590.24	7.14	583.10
	10/12/2021	590.24	6.72	583.52
	11/3/2021	590.24	5.66	584.58
	12/14/2021	590.24	5.74	584.50
	1/12/2022	590.24	5.80	584.44
	2/8/2022	590.24	6.40	583.84
	3/10/2022	590.24	7.00	583.24
4/14/2022	590.24	7.14	583.10	
5/23/2022	590.24	5.21	585.03	
6/28/2022	590.24	5.60	584.64	
7/18/2022	590.24	6.20	584.04	
8/22/2022	590.24	5.73	584.51	
9/26/2022	590.24	5.70	584.54	
10/3/2022	590.24	5.75	584.49	
11/7/2022	590.24	5.82	584.42	
12/15/2022	590.24	5.10	585.14	
MW-16	11/2/2015	607.41	25.13	582.28
	2/29/2016	607.41	24.91	582.50
	5/2/2016	607.41	25.23	582.18
	8/23/2016	607.41	28.33	579.08
	12/2/2016	607.41	28.22	579.19
	2/21/2017	607.41	27.71	579.70
	5/15/2017	607.41	23.99	583.42
	7/6/2017	607.41	27.03	580.38
	9/11/2017	607.41	26.74	580.67
	11/27/2017	607.41	27.49	579.92
	6/1/2018	607.41	23.22	584.19
	11/6/2018	607.41	23.65	583.76
	5/14/2019	607.41	23.40	584.01
	11/18/2019	607.41	23.60	583.81
	4/21/2020	607.41	25.26	582.15
	11/17/2020	607.41	27.50	579.91
	3/1/2021	607.41	27.25	580.16
	3/30/2021	607.41	26.96	580.45
	5/5/2021	607.41	27.50	579.91
	5/27/2021	607.41	27.35	580.06
	6/18/2021	607.41	27.12	580.29
	7/8/2021	607.41	26.41	581.00
	8/18/2021	607.41	26.92	580.49
	9/29/2021	607.41	27.45	579.96
	10/12/2021	607.41	26.99	580.42
	11/3/2021	607.41	27.04	580.37
	12/14/2021	607.41	27.60	579.81
	1/12/2022	607.41	22.80	584.61
	2/8/2022	607.41	28.22	579.19
	3/10/2022	607.41	27.85	579.56
4/14/2022	607.41	27.40	580.01	
5/23/2022	607.41	25.85	581.56	
6/28/2022	607.41	27.20	580.21	
7/18/2022	607.41	27.30	580.11	
8/22/2022	607.41	27.28	580.13	
9/26/2022	607.41	21.40	580.13	
10/3/2022	607.41	27.40	580.01	
11/7/2022	607.41	28.09	579.32	
12/15/2022	607.41	28.00	579.41	

MSL - Mean Sea Level
TOC - Top of Casing

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

DATE	Groundwater Flow Direction	Kavg (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
5/5/2021	East-Southeast	1.790E-03	0.0017	0.35	0.75
8/18/2021	East-Southeast	1.790E-03	0.0024	0.35	1.06
11/3/2021	East-Southeast	1.790E-03	0.0020	0.35	0.88
2/8/2022	East-Southeast	1.790E-03	0.0026	0.35	1.15
5/23/2022	East-Southeast	1.790E-03	0.0016	0.35	0.71
8/22/2022	East-Southeast	1.790E-03	0.0016	0.35	0.71
11/7/2022	East-Southeast	1.790E-03	0.0015	0.35	0.66

* Kavg - 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 Applied Hydrogeology, Fetter, 1980.

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

Well ID	Number of Groundwater Sampling Events	Dates of Groundwater Sampling Events	Detection Monitoring (D) versus Assessment Monitoring (A)
MW-09 (Background)	4	2/10/2022	D
		5/24/2022	D
		8/23/2022	D
		11/7/2022	D
MW-11 (Background)	4	2/10/2022	D
		5/24/2022	D
		8/23/2022	D
		11/8/2022	D
MW-14 (Background)	4	2/10/2022	D
		5/24/2022	D
		8/23/2022	D
		11/8/2022	D
MW-01 (Downgradient)	4	2/8/2022	D
		5/23/2022	D
		8/22/2022	D
		11/7/2022	D
MW-02 (Downgradient)	4	2/8/2022	D
		5/23/2022	D
		8/22/2022	D
		11/7/2022	D
MW-03 (Downgradient)	4	2/8/2022	D
		5/23/2022	D
		8/22/2022	D
		11/7/2022	D
MW-04 (Downgradient)	4	2/8/2022	D
		5/23/2022	D
		8/22/2022	D
		11/7/2022	D
MW-16 (Downgradient)	4	2/8/2022	D
		5/23/2022	D
		8/22/2022	D
		11/7/2022	D

Table 4. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-09 up-gradient	11/4/2015	13	210	450	0.14	6.60	370	1700
	3/2/2016	35	380	720	0.11	7.02	970	2800
	5/3/2016	16	310	620	0.12	7.02	740	2500
	8/25/2016	4.5	130	270	0.21	7.13	190	1100
	12/8/2016	15	200	330	0.18	7.01	270	1300
	2/23/2017	14	190	290	0.12	7.68	320	1300
	5/16/2017	27	160	67	0.29	8.15	420	970
	7/6/2017	21	220	430	0.13	7.18	610	1800
	Pred. Limit*	43.9	449	963	0.33	8.53-5.92	1214	3499
	9/13/2017	21	250	420	0.14	7.17	520	1800
	11/29/2017	26	200	390	0.13	7.05	390	1600
	5/31/2018	32	200	29	0.11	6.85	490	1000
	11/6/2018	30	170	23	0.11	7.33	290	930
	5/15/2019	26	120	260	0.13	7.53	31	1000
	11/19/2019	22	160	17	0.16	8.04	300	750
	4/22/2020	22	140	9.2	0.18	7.81	360	700
	11/18/2020	28	250	290	0.18	7.43	420	1700
	5/6/2021	31	170	35	0.12	7.51	420	910
	8/19/2021	7.2	150	170	0.13	7.01	210	350
	11/4/2021	10	150	160	0.24	7.07	180	980
2/10/2022	9.5	190	220	0.17	7.11	270	1300	
5/24/2022	5.3	150	180	0.23	7.15	200	940	
8/23/2022	12	170	170	0.22	7.14	290	1100	
11/7/2022	6.4	160	200	0.51	6.98	220	1100	
12/21/2022 (R)	NS	NS	NS	0.4	NS	NS	NS	
MW-11 up-gradient	11/5/2015	5.2	140	240	0.13	6.51	190	1100
	3/2/2016	4.0	170	240	0.1	7.16	210	1200
	5/5/2016	5.0	140	280	0.11	7.17	160	1000
	8/26/2016	3.5	180	240	0.13	6.97	110	1100
	12/7/2016	3.0	170	270	0.12	7.06	110	1200
	2/24/2017	2.4	180	220	4.9	6.61	170	1200
	5/18/2017	1.8	160	170	0.12	7.42	120	1000
	7/6/2017	2.4	160	190	0.14	7.33	130	1100
	Pred. Limit*	6.83	206	333	4.9	7.91-6.14	255	1341
	9/13/2017	1.9	140	150	0.26	7.16	96	870
	11/30/2017	2.2	170	200	0.14	6.99	93	1100
	5/31/2018	1.5	210	160	0.1	6.74	130	1100
	11/6/2018	2.3	170	150	0.12	7.21	78	990
	5/15/2019	3.2	120	260	0.13	7.14	31	1000
	11/19/2019	4.1	130	200	0.15	7.51	29	860
	4/22/2020	3.2	110	150	0.15	7.16	47	740
	11/19/2020	2.3	140	130	0.2	7.00	28	800
	5/6/2021	2.4	130	120	0.15	7.13	45	770
	8/19/2021	1.3	140	88	0.16	6.95	45	730
	11/4/2021	1.6	130	100	0.16	6.80	45	740
2/10/2022	1.2	150	87	0.17	7.12	44	860	
5/24/2022	1.8	150	95	0.14	6.78	21	820	
8/23/2022	1.4	140	97	0.18	7.01	30	780	
11/8/2022	1.4	150	100	0.21	6.87	26	790	
MW-14 up-gradient	11/5/2015	1.4	150	190	0.19	6.78	140	1000
	3/2/2016	0.93	150	110	0.17	7.24	150	870
	5/5/2016	1.2	170	120	0.18	7.17	190	980
	8/26/2016	1.5	200	210	0.12	7.00	190	1300
	12/7/2016	0.95	240	340	0.25	6.81	120	1100
	2/23/2017	0.73	150	99	0.19	6.88	110	730
	5/18/2017	0.81	120	130	0.3	7.62	70	590
	7/6/2017	1.2	190	180	0.13	7.29	190	1300
	Pred. Limit*	1.85	274	389	0.35	7.89-6.31	266	1676
	9/13/2017	2.3	180	190	0.15	7.20	270	1200
	11/30/2017	0.85	170	130	0.19	7.33	99	940
	6/1/2018	0.54	100	57	0.28	6.89	42	410
	11/6/2018	0.98	160	110	0.24	7.36	53	610
	5/15/2019	0.69	110	190	0.23	7.25	35	780
	11/19/2019	0.62	130	68	0.16	7.58	21	630
	4/22/2020	0.43	120	20	0.21	7.16	9.5	500
	11/19/2020	0.71	130	40	0.2	7.09	20	520
	5/6/2021	0.45	130	41	0.19	7.16	28	390
	8/19/2021	0.48	130	32	0.13	6.96	34	450
	11/4/2021	0.66	120	37	0.21	7.15	72	580
2/10/2022	0.5	150	30	0.16	7.29	58	760	
5/24/2022	0.62	120	33	0.17	7.11	43	570	
8/23/2022	0.58	150	52	0.15	7.03	28	740	
11/8/2022	0.65	150	46	0.2	6.99	28	650	
MW-01 down-gradient	11/2/2015	1.8	64	71	0.46	10.93	310	560
	3/1/2016	V	58	63	0.26	11.13	270	570
	5/4/2016	2.0	45	60	0.3	11.09	210	490
	8/23/2016	2.0	42	60	0.26	10.49	240	550
	12/5/2016	2.2	55	65	0.34	10.46	180	560
	2/21/2017	2.2	50	61	0.29	11.30	250	540
	5/15/2017	2.1	52	59	0.37	10.69	330	570
	7/5/2017	2.3	44	51	0.34	10.83	320	570
	Pred. Limit	1.83	227**	345**	4.9**	7.70-6.43**	233**	1461**
	Pred. Limit*	2.52	NC	NC	NC	11.7-10.03	411.6	NC
	9/14/2017	2.4	71	47	0.24	10.45	430	770
	11/27/2017	2.2	84	43	0.11	7.85	330	840
	5/29/2018	2.4	54	58	0.33	8.44	350	610
	11/5/2018	2.0	38	43	0.25	8.70	210	630
	5/14/2019	2.2	56	45	0.18	9.85	250	560
	11/19/2019	2.3	38	39	0.24	10.58	240	530
	4/21/2020	2.8	55	25	0.22	9.40	240	470
	11/17/2020	3.3	120	95	0.14	7.97	250	640
	5/5/2021	<	5.0	66	0.22	9.00	180	430
	8/18/2021	2.7	72	60	0.17	8.31	170	430
11/3/2021	2.9	67	60	0.22	8.56	180	440	
2/8/2022	3.1	62	42	0.27	8.67	230	530	
5/23/2022	3.3	94	34	0.2	7.77	200	490	
8/22/2022	2.8	52	43	0.34	8.60	190	430	
11/7/2022	3.0	59	48	0.43	8.45	180	460	

Notes: All units are in mg/l except pH is in standard units.
Pred. Limit - Prediction Limit
Italic Date - Detection Monitoring and resample after statistical background establishment.
* - Intrawell Prediction Limit. All others are interwell comparisons.
** - Based on pooled background from MW-11/MW-14. All others based on MW-14 as background.
V - Serial dilution exceeds the control limits.
R - Resampling event
NA - Not analyzed. No confirmation resample required.
Bold - Potential statistically significant increase.
BOLD - Potential statistically significant increase relative to intrawell Prediction Limit.
BOLD - Above both interwell and intrawell Prediction Limits.
NC - Not Calculated.

Table 4. Appendix III Groundwater Analytical Results - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids
MW-02 down-gradient	11/2/2015	3.0	32	47	0.78	8.27	230	460
	3/1/2016	4.1	39	47	1.3	8.57	220	510
	5/4/2016	3.3	34	51	1.5	8.19	180	440
	8/23/2016	3.1	42	59	1.3	7.52	250	500
	12/5/2016	3.1	28	56	1.0	8.62	160	430
	2/21/2017	3.3	31	52	0.76	8.75	190	420
	5/15/2017	3.6	85	48	0.64	8.33	320	640
	7/5/2017	4.2	100	52	0.42	7.92	300	710
	Pred. Limit	1.83	227**	345**	4.9**	7.70-6.43**	233**	1461**
	Pred. Limit*	4.73	NC	NC	NC	9.38-7.16	386.6	NC
	9/14/2017	2.5	87	54	0.44	8.19	340	780
	11/27/2017	3.4	69	57	0.62	7.34	200	570
	5/29/2018	4.5	160	43	0.40	6.85	420	990
	11/5/2018	3.1	77	59	0.61	8.06	180	610
	5/14/2019	2.9	47	49	1.0	8.30	140	430
	11/19/2019	4.7	140	43	0.7	7.37	270	900
	4/21/2020	3.4	86	48	1.0	8.02	250	580
	11/17/2020	4.0	79	20	0.8	7.67	310	610
	5/5/2021	4.6	70	37	0.7	8.39	190	420
	8/18/2021	4.1	84	39	0.5	7.92	190	480
11/3/2021	4.2	59	43	0.6	7.78	170	410	
2/8/2022	0.18	71	34	0.5	8.00	200	580	
5/23/2022	3.5	77	30	0.5	8.12	190	510	
8/22/2022	3.3	84	33	0.3	7.59	220	650	
11/7/2022	3.5	120	36	0.29	7.40	270	700	
MW-03 down-gradient	11/2/2015	2.3	72	87	0.51	9.26	270	570
	3/1/2016	2.9	61	70	0.33	7.33	220	530
	5/4/2016	2.4	42	74	0.56	7.25	170	470
	8/24/2016	2.0	70	59	0.3	9.13	200	430
	12/5/2016	2.4	57	60	0.41	7.62	120	440
	2/21/2017	2.2	56	65	0.33	7.56	180	460
	5/16/2017	3.9	110	61	0.27	7.90	320	820
	7/5/2017	3.0	60	60	0.28	7.46	200	470
	Pred. Limit	1.83	227**	345**	4.9**	7.70-6.43**	233**	1461**
	Pred. Limit*	4.31	NC	NC	NC	9.26-7.25	378.9	NC
	9/14/2017	2.1	86	57	0.26	7.53	260	680
	11/28/2017	2.6	69	63	0.56	6.96	120	500
	5/29/2018	2.4	67	61	0.38	6.84	190	480
	11/5/2018	2.4	54	54	0.5	8.99	150	500
	5/14/2019	4.2	86	17	0.59	7.21	270	660
	11/19/2019	4.2	130	15	0.25	7.47	300	740
	4/21/2020	3.8	120	23	0.29	6.87	270	660
	11/17/2020	3.8	120	53	0.29	7.05	240	650
	5/5/2021	3.3	110	43	0.23	7.18	210	550
	8/18/2021	3	150	46	0.17	6.90	250	690
11/3/2021	3.2	120	40	0.18	7.05	250	600	
2/8/2022	2.6	91	31	0.3	7.16	210	580	
5/23/2022	2.4	79	32	0.23	8.72	170	430	
6/30/2022R	NA	NA	NA	NA	7.29	NA	NA	
8/22/2022	1.8	80	45	0.2	7.38	180	570	
11/7/2022	2.3	82	50	0.35	7.35	180	520	
MW-04 down-gradient	11/3/2015	1.8	66	62	0.51	6.68	240	480
	3/1/2016	2.0	58	51	0.5	7.17	170	450
	5/4/2016	1.6	44	49	0.61	6.92	140	340
	8/24/2016	2.0	46	58	0.56	7.01	120	370
	12/5/2016	3.4	200	60	0.21	7.40	300	1000
	2/22/2017	2.4	150	41	0.17	7.44	290	850
	5/16/2017	2.5	170	29	0.32	7.94	400	970
	7/5/2017	3.6	200	51	0.29	7.09	520	1100
	Pred. Limit	1.83	227**	345**	4.9**	7.70-6.43**	233**	1461**
	Pred. Limit*	4.42	NC	NC	NC	8.26-6.15	647.3	NC
	9/14/2017	2.5	180	45	0.28	7.04	480	1100
	11/28/2017	2.3	110	32	0.28	7.04	130	560
	5/30/2018	3.0	150	21	0.38	6.57	200	700
	11/6/2018	2.5	150	58	0.37	6.83	240	900
	5/14/2019	3.3	100	58	0.64	7.30	200	730
	11/19/2019	2.9	120	44	0.75	7.27	270	680
	4/21/2020	2.9	100	33	0.9	7.18	290	670
	11/18/2020	3.1	100	18	1.1	7.17	250	690
	5/5/2021	3.3	75	17	0.91	7.46	190	530
	8/18/2021	3.0	92	39	0.9	7.45	200	590
11/3/2021	2.7	67	50	0.99	7.36	150	550	
2/8/2022	3.1	110	38	0.66	7.61	190	660	
5/23/2022	2.5	81	41	0.61	8.05	150	510	
6/30/2022R	NA	NA	NA	NA	7.41	NA	NA	
8/22/2022	FI 3.1	100	31	0.55	7.82	230	660	
11/7/2022	2.7	63	33	0.62	7.47	180	450	
MW-16 down-gradient	11/3/2015	4.1	230	87	0.43	6.24	610	1400
	3/2/2016	3.1	360	130	0.35	6.76	990	1700
	5/2/2016	4.9	250	150	0.49	6.99	620	1600
	8/24/2016	3.6	130	53	0.71	7.00	330	830
	12/5/2016	3.8	160	52	0.51	7.03	280	920
	2/24/2017	6.5	200	67	0.2	5.76	570	1100
	5/16/2017	2.6	340	130	0.15	7.57	760	1700
	7/6/2017	9.5	190	70	0.57	7.35	480	1100
	Pred. Limit	1.83	227**	345**	4.9**	7.70-6.43**	233**	1461**
	Pred. Limit*	10.94	456.4	NC	NC	8.45-5.23	1206	2257
	9/13/2017	2.8	190	55	0.61	7.33	460	970
	11/27/2017	4.2	140	58	0.71	7.16	270	760
	6/1/2018	3	380	130	0.32	6.53	890	1900
	8/22/2018 (R)	NA	190	NA	NA	NA	NA	1200
	11/6/2018	3.9	380	150	0.39	6.78	550	1900
	12/4/2018 (R)	NA	320	NA	NA	NA	NA	1600
	5/15/2019	2.9	400	65	0.31	6.67	990	2000
	11/19/2019	7.2	410	480	0.46	6.89	680	3100
	12/27/2019 (R)	NS	NS	NS	NS	NS	NS	2800
	4/21/2020	7.7	420	200	0.5	6.79	1100	2400
11/17/2020	3.2	130	54	0.71	7.22	320	990	
5/6/2021	3.1	120	55	0.68	7.33	300	740	
8/18/2021	3.1	140	55	0.66	7.19	320	790	
11/4/2021	3	120	48	0.68	7.32	290	810	
2/8/2022	2.6	110	41	0.65	7.40	280	780	
5/23/2022	3.6	170	62	0.53	6.97	420	1100	
8/22/2022	2.7	110	42	0.62	7.33	280	780	
11/7/2022	3.0	120	47	0.8	7.20	290	730	

Notes: All units are in mg/l except pH is in standard units.
Pred. Limit - Prediction Limit
Italic Date - Detection Monitoring and resample after statistical background establishment.
***** - Intrawell Prediction Limit. All others are interwell comparisons.
****** - Based on pooled background from MW-11/MW-14. All others based on MW-14 as background.
V - Serial dilution exceeds the control limits.
R - Resampling event
NA - Not analyzed. No confirmation resample required.
Bold - Potential statistically significant increase.
BOLD - Potential statistically significant increase relative to intrawell Prediction Limit.
BOLD - Above both interwell and intrawell Prediction Limits.
NC - Not Calculated.

Appendix A
Analytical Data Packages from 2022 Detection Monitoring

ANALYTICAL REPORT

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

Laboratory Job ID: 500-212083-1
Client Project/Site: Waukegan CCR

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

Attn: Richard Gnat



Authorized for release by:
3/3/2022 11:02:58 AM
Robin Kintz, Project Manager II
(708)534-5200

Robin.Kintz@Eurofinset.com

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

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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: Waukegan CCR

Job ID: 500-212083-1

Job ID: 500-212083-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-212083-1

Comments

No additional comments.

Receipt

The samples were received on 2/9/2022 4:05 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 -1.3° C, 2.1° C and 2.2° C.

Metals

Method 3005A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for <CHOOSE_ONE> preparation/analysis: MW-01 (500-212083-1).

Method 7470A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation: MW-01 (500-212083-1).

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: Waukegan CCR

Job ID: 500-212083-1

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: Waukegan CCR

Job ID: 500-212083-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-212083-1	MW-01	Water	02/08/22 10:30	02/09/22 16:05
500-212083-2	MW-02	Water	02/08/22 11:24	02/09/22 16:05
500-212083-3	MW-03	Water	02/08/22 12:24	02/09/22 16:05
500-212083-4	MW-04	Water	02/08/22 13:21	02/09/22 16:05
500-212083-5	MW-16	Water	02/08/22 14:05	02/09/22 16:05
500-212083-6	Duplicate	Water	02/08/22 00:00	02/09/22 16:05
500-212083-7	MW-09	Water	02/10/22 10:21	02/11/22 10:05
500-212083-8	MW-11	Water	02/10/22 12:24	02/11/22 10:05
500-212083-9	MW-14	Water	02/10/22 11:23	02/11/22 10:05

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

Client Sample Results

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

Job ID: 500-212083-1

Client Sample ID: MW-01

Lab Sample ID: 500-212083-1

Date Collected: 02/08/22 10:30

Matrix: Water

Date Received: 02/09/22 16:05

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		02/18/22 10:52	02/18/22 20:10	1
Arsenic	0.023		0.0010		mg/L		02/18/22 10:52	02/18/22 20:10	1
Barium	0.037		0.0025		mg/L		02/18/22 10:52	02/18/22 20:10	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:10	1
Boron	3.1		0.50		mg/L		02/18/22 10:52	02/21/22 16:07	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:10	1
Calcium	62		0.20		mg/L		02/18/22 10:52	02/18/22 20:10	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:10	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:10	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:10	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:10	1
Molybdenum	0.030		0.0050		mg/L		02/18/22 10:52	02/18/22 20:10	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:10	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0010		0.0010		mg/L		02/24/22 16:00	02/25/22 13:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10		mg/L			02/10/22 07:01	1
Chloride	42		2.0		mg/L			03/02/22 14:32	1
Fluoride	0.27		0.10		mg/L			02/15/22 17:33	1
Sulfate	230		25		mg/L			03/02/22 17:10	5

Client Sample ID: MW-02

Lab Sample ID: 500-212083-2

Date Collected: 02/08/22 11:24

Matrix: Water

Date Received: 02/09/22 16:05

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		02/18/22 10:52	02/18/22 20:28	1
Arsenic	0.021		0.0010		mg/L		02/18/22 10:52	02/18/22 20:28	1
Barium	0.025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:28	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:28	1
Boron	0.18		0.050		mg/L		02/18/22 10:52	02/21/22 16:12	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:28	1
Calcium	71		0.20		mg/L		02/18/22 10:52	02/18/22 20:28	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:28	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:28	1
Lead	0.00069		0.00050		mg/L		02/18/22 10:52	02/18/22 20:28	1
Lithium	0.0055		0.0020		mg/L		02/18/22 10:52	02/18/22 20:28	1
Molybdenum	0.028		0.0050		mg/L		02/18/22 10:52	02/18/22 20:28	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:28	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:11	1

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Client Sample Results

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

Job ID: 500-212083-1

Client Sample ID: MW-02
Date Collected: 02/08/22 11:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10		mg/L			02/10/22 07:04	1
Chloride	34		2.0		mg/L			03/02/22 14:32	1
Fluoride	0.50		0.10		mg/L			02/15/22 17:51	1
Sulfate	200		25		mg/L			03/02/22 17:29	5

Client Sample ID: MW-03
Date Collected: 02/08/22 12:24
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-3
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		02/18/22 10:52	02/18/22 20:31	1
Arsenic	0.0053		0.0010		mg/L		02/18/22 10:52	02/18/22 20:31	1
Barium	0.028		0.0025		mg/L		02/18/22 10:52	02/18/22 20:31	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:31	1
Boron	2.6		0.50		mg/L		02/18/22 10:52	02/21/22 16:16	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:31	1
Calcium	91		0.20		mg/L		02/18/22 10:52	02/18/22 20:31	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:31	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:31	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:31	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:31	1
Molybdenum	0.031		0.0050		mg/L		02/18/22 10:52	02/18/22 20:31	1
Selenium	0.0062		0.0025		mg/L		02/18/22 10:52	02/18/22 20:31	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10		mg/L			02/10/22 07:06	1
Chloride	31		2.0		mg/L			03/02/22 14:32	1
Fluoride	0.30		0.10		mg/L			02/15/22 17:54	1
Sulfate	210		25		mg/L			03/02/22 17:11	5

Client Sample ID: MW-04
Date Collected: 02/08/22 13:21
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-4
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		02/18/22 10:52	02/18/22 20:34	1
Arsenic	0.024		0.0010		mg/L		02/18/22 10:52	02/18/22 20:34	1
Barium	0.057		0.0025		mg/L		02/18/22 10:52	02/18/22 20:34	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:34	1
Boron	3.1		0.50		mg/L		02/18/22 10:52	02/21/22 16:19	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:34	1
Calcium	110		0.20		mg/L		02/18/22 10:52	02/18/22 20:34	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:34	1

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Client Sample Results

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

Job ID: 500-212083-1

Client Sample ID: MW-04

Lab Sample ID: 500-212083-4

Date Collected: 02/08/22 13:21

Matrix: Water

Date Received: 02/09/22 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	0.0011		0.0010		mg/L		02/18/22 10:52	02/18/22 20:34	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:34	1
Lithium	0.0076		0.0020		mg/L		02/18/22 10:52	02/18/22 20:34	1
Molybdenum	0.014		0.0050		mg/L		02/18/22 10:52	02/18/22 20:34	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:34	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	660		10		mg/L			02/10/22 07:09	1
Chloride	38		2.0		mg/L			03/02/22 14:33	1
Fluoride	0.66		0.10		mg/L			02/15/22 18:01	1
Sulfate	190		25		mg/L			03/02/22 17:11	5

Client Sample ID: MW-16

Lab Sample ID: 500-212083-5

Date Collected: 02/08/22 14:05

Matrix: Water

Date Received: 02/09/22 16:05

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		02/18/22 10:52	02/18/22 20:45	1
Arsenic	0.0050		0.0010		mg/L		02/18/22 10:52	02/18/22 20:45	1
Barium	0.033		0.0025		mg/L		02/18/22 10:52	02/18/22 20:45	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:45	1
Boron	2.6		0.50		mg/L		02/18/22 10:52	02/21/22 16:23	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:45	1
Calcium	110		0.20		mg/L		02/18/22 10:52	02/18/22 20:45	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:45	1
Cobalt	0.0021		0.0010		mg/L		02/18/22 10:52	02/18/22 20:45	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:45	1
Lithium	0.012		0.0020		mg/L		02/18/22 10:52	02/18/22 20:45	1
Molybdenum	0.027		0.0050		mg/L		02/18/22 10:52	02/18/22 20:45	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:45	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		10		mg/L			02/10/22 07:11	1
Chloride	41		2.0		mg/L			03/02/22 14:33	1
Fluoride	0.65		0.10		mg/L			02/15/22 18:08	1
Sulfate	280		50		mg/L			03/02/22 17:29	10

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Client Sample Results

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

Job ID: 500-212083-1

Client Sample ID: Duplicate
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-6
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		02/18/22 10:52	02/18/22 20:48	1
Arsenic	0.0057		0.0010		mg/L		02/18/22 10:52	02/18/22 20:48	1
Barium	0.029		0.0025		mg/L		02/18/22 10:52	02/18/22 20:48	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:48	1
Boron	2.6		0.50		mg/L		02/18/22 10:52	02/21/22 16:33	10
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:48	1
Calcium	94		0.20		mg/L		02/18/22 10:52	02/18/22 20:48	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:48	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:48	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:48	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:48	1
Molybdenum	0.030		0.0050		mg/L		02/18/22 10:52	02/18/22 20:48	1
Selenium	0.0066		0.0025		mg/L		02/18/22 10:52	02/18/22 20:48	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	580		10		mg/L			02/10/22 07:14	1
Chloride	31		4.0		mg/L			03/02/22 14:33	2
Fluoride	0.29		0.10		mg/L			02/15/22 18:13	1
Sulfate	210		25		mg/L			03/02/22 17:12	5

Client Sample ID: MW-09

Date Collected: 02/10/22 10:21
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 21:36	1
Arsenic	0.015		0.0010		mg/L		02/18/22 10:52	02/18/22 21:36	1
Barium	0.033		0.0025		mg/L		02/18/22 10:52	02/18/22 21:36	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:36	1
Boron	9.5		1.0		mg/L		02/18/22 10:52	02/21/22 17:19	20
Cadmium	0.00076		0.00050		mg/L		02/18/22 10:52	02/18/22 21:36	1
Calcium	190		0.20		mg/L		02/18/22 10:52	02/18/22 21:36	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 21:36	1
Cobalt	0.0038		0.0010		mg/L		02/18/22 10:52	02/18/22 21:36	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:36	1
Lithium	0.065		0.0020		mg/L		02/18/22 10:52	02/18/22 21:36	1
Molybdenum	0.21		0.0050		mg/L		02/18/22 10:52	02/18/22 21:36	1
Selenium	0.036		0.0025		mg/L		02/18/22 10:52	02/18/22 21:36	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 21:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:36	1

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Client Sample Results

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

Job ID: 500-212083-1

Client Sample ID: MW-09
Date Collected: 02/10/22 10:21
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			02/14/22 04:33	1
Chloride	220		10		mg/L			03/02/22 14:33	5
Fluoride	0.17		0.10		mg/L			02/15/22 18:18	1
Sulfate	270		50		mg/L			03/02/22 17:29	10

Client Sample ID: MW-11
Date Collected: 02/10/22 12:24
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-8
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		02/18/22 10:52	02/18/22 21:40	1
Arsenic	0.68		0.0010		mg/L		02/18/22 10:52	02/18/22 21:40	1
Barium	0.051		0.0025		mg/L		02/18/22 10:52	02/18/22 21:40	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:40	1
Boron	1.2		0.25		mg/L		02/18/22 10:52	02/21/22 17:22	5
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:40	1
Calcium	150		0.20		mg/L		02/18/22 10:52	02/18/22 21:40	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 21:40	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:40	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:40	1
Lithium	0.032		0.0020		mg/L		02/18/22 10:52	02/18/22 21:40	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 21:40	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 21:40	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 21:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	860		10		mg/L			02/14/22 04:35	1
Chloride	87		4.0		mg/L			03/02/22 14:34	2
Fluoride	0.17		0.10		mg/L			02/15/22 18:22	1
Sulfate	44		5.0		mg/L			03/02/22 17:11	1

Client Sample ID: MW-14
Date Collected: 02/10/22 11:23
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-9
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		02/18/22 10:52	02/18/22 21:43	1
Arsenic	0.89		0.0010		mg/L		02/18/22 10:52	02/18/22 21:43	1
Barium	0.054		0.0025		mg/L		02/18/22 10:52	02/18/22 21:43	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:43	1
Boron	0.50		0.050		mg/L		02/18/22 10:52	02/21/22 17:26	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:43	1
Calcium	150		0.20		mg/L		02/18/22 10:52	02/18/22 21:43	1
Chromium	0.19		0.0050		mg/L		02/18/22 10:52	02/18/22 21:43	1

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Client Sample Results

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

Job ID: 500-212083-1

Client Sample ID: MW-14
Date Collected: 02/10/22 11:23
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 21:43	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 21:43	1
Lithium	0.014		0.0020		mg/L		02/18/22 10:52	02/18/22 21:43	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 21:43	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 21:43	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 21:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	760		10		mg/L			02/14/22 04:38	1
Chloride	30		2.0		mg/L			03/02/22 14:34	1
Fluoride	0.16		0.10		mg/L			02/15/22 18:26	1
Sulfate	58		10		mg/L			03/02/22 17:13	2

Definitions/Glossary

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

Job ID: 500-212083-1

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: Waukegan CCR

Job ID: 500-212083-1

Metals

Prep Batch: 643202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total Recoverable	Water	3005A	
500-212083-2	MW-02	Total Recoverable	Water	3005A	
500-212083-3	MW-03	Total Recoverable	Water	3005A	
500-212083-4	MW-04	Total Recoverable	Water	3005A	
500-212083-5	MW-16	Total Recoverable	Water	3005A	
500-212083-6	Duplicate	Total Recoverable	Water	3005A	
500-212083-7	MW-09	Total Recoverable	Water	3005A	
500-212083-8	MW-11	Total Recoverable	Water	3005A	
500-212083-9	MW-14	Total Recoverable	Water	3005A	
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 643537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total Recoverable	Water	6020A	643202
500-212083-2	MW-02	Total Recoverable	Water	6020A	643202
500-212083-3	MW-03	Total Recoverable	Water	6020A	643202
500-212083-4	MW-04	Total Recoverable	Water	6020A	643202
500-212083-5	MW-16	Total Recoverable	Water	6020A	643202
500-212083-6	Duplicate	Total Recoverable	Water	6020A	643202
500-212083-7	MW-09	Total Recoverable	Water	6020A	643202
500-212083-8	MW-11	Total Recoverable	Water	6020A	643202
500-212083-9	MW-14	Total Recoverable	Water	6020A	643202
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	6020A	643202
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643202

Analysis Batch: 643796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total Recoverable	Water	6020A	643202
500-212083-2	MW-02	Total Recoverable	Water	6020A	643202
500-212083-3	MW-03	Total Recoverable	Water	6020A	643202
500-212083-4	MW-04	Total Recoverable	Water	6020A	643202
500-212083-5	MW-16	Total Recoverable	Water	6020A	643202
500-212083-6	Duplicate	Total Recoverable	Water	6020A	643202
500-212083-7	MW-09	Total Recoverable	Water	6020A	643202
500-212083-8	MW-11	Total Recoverable	Water	6020A	643202
500-212083-9	MW-14	Total Recoverable	Water	6020A	643202
MB 500-643202/1-A	Method Blank	Total Recoverable	Water	6020A	643202
LCS 500-643202/2-A	Lab Control Sample	Total Recoverable	Water	6020A	643202

Prep Batch: 644353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	7470A	
500-212083-2	MW-02	Total/NA	Water	7470A	
500-212083-3	MW-03	Total/NA	Water	7470A	
500-212083-4	MW-04	Total/NA	Water	7470A	
500-212083-5	MW-16	Total/NA	Water	7470A	
500-212083-6	Duplicate	Total/NA	Water	7470A	
500-212083-7	MW-09	Total/NA	Water	7470A	
500-212083-8	MW-11	Total/NA	Water	7470A	
500-212083-9	MW-14	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 500-212083-1

Metals (Continued)

Prep Batch: 644353 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-644353/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-644353/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-212083-2 MS	MW-02	Total/NA	Water	7470A	
500-212083-2 MSD	MW-02	Total/NA	Water	7470A	
500-212083-2 DU	MW-02	Total/NA	Water	7470A	

Analysis Batch: 644609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	7470A	644353
500-212083-2	MW-02	Total/NA	Water	7470A	644353
500-212083-3	MW-03	Total/NA	Water	7470A	644353
500-212083-4	MW-04	Total/NA	Water	7470A	644353
500-212083-5	MW-16	Total/NA	Water	7470A	644353
500-212083-6	Duplicate	Total/NA	Water	7470A	644353
500-212083-7	MW-09	Total/NA	Water	7470A	644353
500-212083-8	MW-11	Total/NA	Water	7470A	644353
500-212083-9	MW-14	Total/NA	Water	7470A	644353
MB 500-644353/12-A	Method Blank	Total/NA	Water	7470A	644353
LCS 500-644353/13-A	Lab Control Sample	Total/NA	Water	7470A	644353
500-212083-2 MS	MW-02	Total/NA	Water	7470A	644353
500-212083-2 MSD	MW-02	Total/NA	Water	7470A	644353
500-212083-2 DU	MW-02	Total/NA	Water	7470A	644353

General Chemistry

Analysis Batch: 641701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	SM 2540C	
500-212083-2	MW-02	Total/NA	Water	SM 2540C	
500-212083-3	MW-03	Total/NA	Water	SM 2540C	
500-212083-4	MW-04	Total/NA	Water	SM 2540C	
500-212083-5	MW-16	Total/NA	Water	SM 2540C	
500-212083-6	Duplicate	Total/NA	Water	SM 2540C	
MB 500-641701/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-641701/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 642215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-7	MW-09	Total/NA	Water	SM 2540C	
500-212083-8	MW-11	Total/NA	Water	SM 2540C	
500-212083-9	MW-14	Total/NA	Water	SM 2540C	
MB 500-642215/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-642215/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 642706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	SM 4500 F C	
500-212083-2	MW-02	Total/NA	Water	SM 4500 F C	
500-212083-3	MW-03	Total/NA	Water	SM 4500 F C	
500-212083-4	MW-04	Total/NA	Water	SM 4500 F C	
500-212083-5	MW-16	Total/NA	Water	SM 4500 F C	

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QC Association Summary

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

Job ID: 500-212083-1

General Chemistry (Continued)

Analysis Batch: 642706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-6	Duplicate	Total/NA	Water	SM 4500 F C	
500-212083-7	MW-09	Total/NA	Water	SM 4500 F C	
500-212083-8	MW-11	Total/NA	Water	SM 4500 F C	
500-212083-9	MW-14	Total/NA	Water	SM 4500 F C	
MB 500-642706/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-642706/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 645327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-212083-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-212083-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-212083-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-212083-5	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-212083-6	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-212083-7	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-212083-8	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-212083-9	MW-14	Total/NA	Water	SM 4500 Cl- E	
MB 500-645327/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-645327/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-212083-9 MS	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-212083-9 MSD	MW-14	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 645387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-212083-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-212083-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-212083-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-212083-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-212083-5	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-212083-6	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-212083-7	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-212083-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-212083-9	MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 500-645387/32	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-645387/34	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-212083-9 MS	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-212083-9 MSD	MW-14	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-212083-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-643202/1-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/18/22 10:52	02/18/22 20:03	1
Arsenic	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Barium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:03	1
Beryllium	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Cadmium	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Calcium	<0.20		0.20		mg/L		02/18/22 10:52	02/18/22 20:03	1
Chromium	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Cobalt	<0.0010		0.0010		mg/L		02/18/22 10:52	02/18/22 20:03	1
Lead	<0.00050		0.00050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Lithium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:03	1
Molybdenum	<0.0050		0.0050		mg/L		02/18/22 10:52	02/18/22 20:03	1
Selenium	<0.0025		0.0025		mg/L		02/18/22 10:52	02/18/22 20:03	1
Thallium	<0.0020		0.0020		mg/L		02/18/22 10:52	02/18/22 20:03	1

Lab Sample ID: MB 500-643202/1-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		02/18/22 10:52	02/21/22 16:00	1

Lab Sample ID: LCS 500-643202/2-A
Matrix: Water
Analysis Batch: 643537

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.475		mg/L		95	80 - 120
Arsenic	0.100	0.0877		mg/L		88	80 - 120
Barium	2.00	1.95		mg/L		98	80 - 120
Beryllium	0.0500	0.0472		mg/L		94	80 - 120
Cadmium	0.0500	0.0483		mg/L		97	80 - 120
Calcium	10.0	9.77		mg/L		98	80 - 120
Chromium	0.200	0.201		mg/L		101	80 - 120
Cobalt	0.500	0.502		mg/L		100	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.500	0.496		mg/L		99	80 - 120
Molybdenum	1.00	0.930		mg/L		93	80 - 120
Selenium	0.100	0.0942		mg/L		94	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-643202/2-A
Matrix: Water
Analysis Batch: 643796

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	0.931		mg/L		93	80 - 120

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QC Sample Results

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

Job ID: 500-212083-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-644353/12-A
Matrix: Water
Analysis Batch: 644609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 644353

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/24/22 16:00	02/25/22 12:06	1

Lab Sample ID: LCS 500-644353/13-A
Matrix: Water
Analysis Batch: 644609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 644353

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00179		mg/L		90	80 - 120

Lab Sample ID: 500-212083-2 MS
Matrix: Water
Analysis Batch: 644609

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 644353

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00100	0.000994		mg/L		99	75 - 125

Lab Sample ID: 500-212083-2 MSD
Matrix: Water
Analysis Batch: 644609

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 644353

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000963		mg/L		96	75 - 125	3	20

Lab Sample ID: 500-212083-2 DU
Matrix: Water
Analysis Batch: 644609

Client Sample ID: MW-02
Prep Type: Total/NA
Prep Batch: 644353

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

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

Lab Sample ID: MB 500-641701/1
Matrix: Water
Analysis Batch: 641701

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			02/10/22 06:28	1

Lab Sample ID: LCS 500-641701/2
Matrix: Water
Analysis Batch: 641701

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

QC Sample Results

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

Job ID: 500-212083-1

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

Lab Sample ID: MB 500-642215/1
Matrix: Water
Analysis Batch: 642215

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			02/14/22 03:39	1

Lab Sample ID: LCS 500-642215/2
Matrix: Water
Analysis Batch: 642215

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

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-645327/16
Matrix: Water
Analysis Batch: 645327

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			03/02/22 14:32	1

Lab Sample ID: LCS 500-645327/17
Matrix: Water
Analysis Batch: 645327

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	19.9		mg/L		100	85 - 115

Lab Sample ID: 500-212083-9 MS
Matrix: Water
Analysis Batch: 645327

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30		20.0	48.5		mg/L		90	75 - 125

Lab Sample ID: 500-212083-9 MSD
Matrix: Water
Analysis Batch: 645327

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	30		20.0	48.7		mg/L		91	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-642706/3
Matrix: Water
Analysis Batch: 642706

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			02/15/22 16:44	1

QC Sample Results

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

Job ID: 500-212083-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-642706/4
Matrix: Water
Analysis Batch: 642706

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	10.5		mg/L		105	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-645387/32
Matrix: Water
Analysis Batch: 645387

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			03/02/22 17:09	1

Lab Sample ID: LCS 500-645387/34
Matrix: Water
Analysis Batch: 645387

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	21.2		mg/L		106	88 - 123

Lab Sample ID: 500-212083-9 MS
Matrix: Water
Analysis Batch: 645387

Client Sample ID: MW-14
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	58		20.0	77.1		mg/L		95	75 - 125

Lab Sample ID: 500-212083-9 MSD
Matrix: Water
Analysis Batch: 645387

Client Sample ID: MW-14
Prep Type: Total/NA

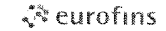
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	58		20.0	76.6		mg/L		93	75 - 125	1	20


Eurofins Chicago

241st Bond Street
 University Park IL 60484
 Phone 708-534 5200 Fax 708-534-5211

Chain of Custody Record

MKE 232



Client Information		Sampler <i>Mitchel Dolan</i>	Lab PM Mockler Diana J	Carrier Tracking No.	COC No 500 98609-43273 1					
Client Contact Mitchel Dolan		Phone <i>262-781-0475</i>	Fax Diana Mockler@Eurofinset.com	State of Origin <i>IL</i>	Page Page 1 of 1					
Company KPRG and Associates Inc.		Analysis Requested			Job # <i>500-212083</i>					
Address 14665 West Lisbon Road Suite 1A		Due Date Requested	 500-212083 COC		Preservation Codes A H L M Hexane B NaOH N None C Zn Acetate J Asha D Nitric Acid P Na2O4S E N HSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T SP Dodecalhydrate I Acetone U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z Other (specify)					
City Brookfield		TAT Requested (days)								
State Zip WI 53005		Compliance Project Yes No								
Phone 262 781-0475(Tel)		PC # 4502012555								
Email mitchel.d@kprg.com		WP #	Total Number of Containers 903.0 904.0 6010C 6020A 7470A 2540C 4500_F_C_SMA4500_CL_E_SMA4500_SO4_E							
Project Name Waukegan CCR Event Desc. Quarterly Waukegan CCR		Project # 50011597	Other: Special Instructions/Note							
Site Illinois		SSOW#								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp G=grab)	Matrix (W=water S=solid O=waste/oil)	Field Filtered Sample (Yes or No)	Performs MS/MSD (Yes or No)			
				Preservation Code	BT- sub. A-A)					
1	MW-01	2/8/22	1030	G	Water	N	N	X	X	X
2	MW-02	2/8/22	1124	G	Water	N	N	X	X	X
3	MW-03	2/8/22	1224	G	Water	N	N	X	X	X
4	MW-04	2/8/22	1321	G	Water	N	N	X	X	X
MW-05					Water					
MW-06					Water					
MW-07					Water					
5	MW-16	2/8/22	1405	G	Water	N	N	X	X	X
6	Duplicate	2/8/22	-	G	Water	N	N	X	X	X
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poisonous <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 Reinquished by		Date	Time	Method of Shipment						
Reinquished by <i>[Signature]</i>		Date/Time <i>2/8/22 / 1600</i>	Company FEDEX <i>KPRG</i>	Received by <i>FEDEX</i>	Date/Time <i>2/8/22 / 1600</i>	Company <i>FEDEX</i>				
Reinquished by		Date/Time	Company <i>KPRG</i>	Received by <i>Stephanie Hernandez</i>	Date/Time <i>2/9/22 1605</i>	Company <i>EETA</i>				
Reinquished by		Date/Time	Company	Received by	Date/Time	Company				
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <i>-0.8 → -1.3, 21</i>						

ORIGIN ID:FEPA (262) 622-1143

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 10FEB22
ACTWGT: 53 15 LB
CAD: 6994083/S9FE2220
DIMS: 26x14x13 IN

BILL THIRD PARTY



500-212083 Wayb

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

Handwritten initials

UNIVERSITY PARK IL 60484

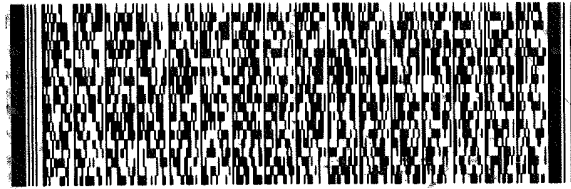
(773) 474-0368

REF:

INU:

DEPT:

PO:



FedEx
Express



1 of 3

TRK# **2897 0385 6530**

MASTER

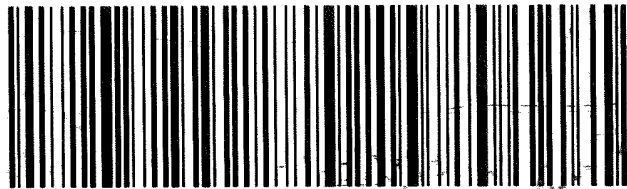
79 JOTA

FRI - 11 FEB 4:30P
STANDARD OVERNIGHT

AHS

60484

IL-US ORD



Part # 150297-483 J510027 055

22

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-212083-1

Login Number: 212083

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	-1.3,2.1,2.2 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: Waukegan CCR

Job ID: 500-212083-1

Client Sample ID: MW-01

Date Collected: 02/08/22 10:30

Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:10	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:07	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 13:18	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:01	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:32	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:33	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:10	PFK	TAL CHI

Client Sample ID: MW-02

Date Collected: 02/08/22 11:24

Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:28	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 16:12	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:11	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:32	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:51	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:29	PFK	TAL CHI

Client Sample ID: MW-03

Date Collected: 02/08/22 12:24

Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:31	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:16	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:21	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:06	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:32	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 17:54	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:11	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-212083-1

Client Sample ID: MW-04
Date Collected: 02/08/22 13:21
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:34	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:19	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:01	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:11	PFK	TAL CHI

Client Sample ID: MW-16
Date Collected: 02/08/22 14:05
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:45	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:23	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:31	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:11	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:08	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	645387	03/02/22 17:29	PFK	TAL CHI

Client Sample ID: Duplicate
Date Collected: 02/08/22 00:00
Date Received: 02/09/22 16:05

Lab Sample ID: 500-212083-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 20:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		10	643796	02/21/22 16:33	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	641701	02/10/22 07:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	645327	03/02/22 14:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:13	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	645387	03/02/22 17:12	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-212083-1

Client Sample ID: MW-09
Date Collected: 02/10/22 10:21
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 21:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		20	643796	02/21/22 17:19	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 04:33	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	645327	03/02/22 14:33	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:18	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	645387	03/02/22 17:29	PFK	TAL CHI

Client Sample ID: MW-11
Date Collected: 02/10/22 12:24
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 21:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		5	643796	02/21/22 17:22	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:39	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 04:35	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	645327	03/02/22 14:34	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:22	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	645387	03/02/22 17:11	PFK	TAL CHI

Client Sample ID: MW-14
Date Collected: 02/10/22 11:23
Date Received: 02/11/22 10:05

Lab Sample ID: 500-212083-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643537	02/18/22 21:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			643202	02/18/22 10:52		TAL CHI
Total Recoverable	Analysis	6020A		1	643796	02/21/22 17:26	FXG	TAL CHI
Total/NA	Prep	7470A			644353	02/24/22 16:00		TAL CHI
Total/NA	Analysis	7470A		1	644609	02/25/22 12:41	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	642215	02/14/22 04:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	645327	03/02/22 14:34	PFK	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	642706	02/15/22 18:26	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	645387	03/02/22 17:13	PFK	TAL CHI

Lab Chronicle

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

Job ID: 500-212083-1

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 500-212083-1

Laboratory: Eurofins Chicago

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

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

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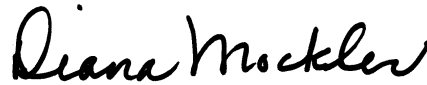
ANALYTICAL REPORT

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

Laboratory Job ID: 500-217068-1
Client Project/Site: Waukegan CCR Q2

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

Attn: Richard Gnat



Authorized for release by:
6/14/2022 10:40:30 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: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Job ID: 500-217068-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-217068-1

Comments

No additional comments.

Receipt

The samples were received on 5/24/2022 1:55 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 -0.1° C, 3.4° C and 8.6° C.

Receipt Exceptions

One or more containers for the following samples were received broken or leaking: MW-01 (500-217068-1), MW-02 (500-217068-2), MW-03 (500-217068-3), MW-04 (500-217068-4), MW-16 (500-217068-5), Duplicate (500-217068-6), MW-09 (500-217068-7), MW-11 (500-217068-8) and MW-14 (500-217068-9). sample 500-217068-D-1 was received with a pin sized hole in the bottom, so we transferred it into a plastic 1 liter bottle and a little over 900mL was salvaged.

The following samples were received at the laboratory outside the required temperature criteria: MW-09 (500-217068-7), MW-11 (500-217068-8) and MW-14 (500-217068-9). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to <CHOOSE_ONE> proceed with/cancel analysis.

Metals

Method 6020A: The low level continuing calibration verification (CCVL) at line 107, associated with batch 500-660498 recovered above the upper control limit for Beryllium. The samples associated with this CCVL 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.

Method Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

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: Waukegan CCR Q2

Job ID: 500-217068-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-217068-1	MW-01	Water	05/23/22 10:59	05/24/22 13:55
500-217068-2	MW-02	Water	05/23/22 11:53	05/24/22 13:55
500-217068-3	MW-03	Water	05/23/22 12:45	05/24/22 13:55
500-217068-4	MW-04	Water	05/23/22 13:57	05/24/22 13:55
500-217068-5	MW-16	Water	05/23/22 15:05	05/24/22 13:55
500-217068-6	Duplicate	Water	05/23/22 00:00	05/24/22 13:55
500-217068-7	MW-09	Water	05/24/22 11:10	05/26/22 15:45
500-217068-8	MW-11	Water	05/24/22 09:10	05/26/22 15:45
500-217068-9	MW-14	Water	05/24/22 10:08	05/26/22 15:45

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: MW-01

Lab Sample ID: 500-217068-1

Date Collected: 05/23/22 10:59

Matrix: Water

Date Received: 05/24/22 13:55

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		06/06/22 16:08	06/08/22 21:29	1
Arsenic	0.018		0.0010		mg/L		06/06/22 16:08	06/08/22 21:29	1
Barium	0.053		0.0025		mg/L		06/06/22 16:08	06/08/22 21:29	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:29	1
Boron	3.3		0.50		mg/L		06/06/22 16:08	06/09/22 13:20	10
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:29	1
Calcium	94		0.20		mg/L		06/06/22 16:08	06/08/22 21:29	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:29	1
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:29	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:29	1
Lithium	<0.010		0.010		mg/L		06/06/22 16:08	06/08/22 21:29	1
Molybdenum	0.026		0.0050		mg/L		06/06/22 16:08	06/08/22 21:29	1
Selenium	<0.0025		0.0025		mg/L		06/06/22 16:08	06/08/22 21:29	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 07:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	490		10		mg/L			05/25/22 02:40	1
Chloride	34		4.0		mg/L			05/27/22 12:57	2
Fluoride	0.20		0.10		mg/L			05/27/22 22:31	1
Sulfate	200		50		mg/L			05/27/22 14:56	10

Client Sample ID: MW-02

Lab Sample ID: 500-217068-2

Date Collected: 05/23/22 11:53

Matrix: Water

Date Received: 05/24/22 13:55

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		06/06/22 16:08	06/08/22 21:33	1
Arsenic	0.020		0.0010		mg/L		06/06/22 16:08	06/08/22 21:33	1
Barium	0.030		0.0025		mg/L		06/06/22 16:08	06/08/22 21:33	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:33	1
Boron	3.5		0.50		mg/L		06/06/22 16:08	06/09/22 13:23	10
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:33	1
Calcium	77		0.20		mg/L		06/06/22 16:08	06/08/22 21:33	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:33	1
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:33	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:33	1
Lithium	<0.010		0.010		mg/L		06/06/22 16:08	06/08/22 21:33	1
Molybdenum	0.024		0.0050		mg/L		06/06/22 16:08	06/08/22 21:33	1
Selenium	0.0035		0.0025		mg/L		06/06/22 16:08	06/08/22 21:33	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 07:52	1

Eurofins Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: MW-02
Date Collected: 05/23/22 11:53
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		10		mg/L			05/25/22 02:43	1
Chloride	30		4.0		mg/L			05/27/22 12:57	2
Fluoride	0.46		0.10		mg/L			05/27/22 22:34	1
Sulfate	190		50		mg/L			05/27/22 14:27	10

Client Sample ID: MW-03
Date Collected: 05/23/22 12:45
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-3
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		06/06/22 16:08	06/08/22 21:36	1
Arsenic	0.016		0.0010		mg/L		06/06/22 16:08	06/08/22 21:36	1
Barium	0.016		0.0025		mg/L		06/06/22 16:08	06/08/22 21:36	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:36	1
Boron	2.4		0.50		mg/L		06/06/22 16:08	06/09/22 13:27	10
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:36	1
Calcium	79		0.20		mg/L		06/06/22 16:08	06/08/22 21:36	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:36	1
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:36	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:36	1
Lithium	<0.010		0.010		mg/L		06/06/22 16:08	06/08/22 21:36	1
Molybdenum	0.025		0.0050		mg/L		06/06/22 16:08	06/08/22 21:36	1
Selenium	0.0031		0.0025		mg/L		06/06/22 16:08	06/08/22 21:36	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 07:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	430		10		mg/L			05/25/22 02:45	1
Chloride	32		4.0		mg/L			05/27/22 12:58	2
Fluoride	0.23		0.10		mg/L			06/11/22 22:41	1
Sulfate	170		50		mg/L			05/27/22 14:28	10

Client Sample ID: MW-04
Date Collected: 05/23/22 13:57
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-4
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		06/06/22 16:08	06/08/22 21:40	1
Arsenic	0.012		0.0010		mg/L		06/06/22 16:08	06/08/22 21:40	1
Barium	0.038		0.0025		mg/L		06/06/22 16:08	06/08/22 21:40	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:40	1
Boron	2.5		0.50		mg/L		06/06/22 16:08	06/09/22 13:30	10
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:40	1
Calcium	81		0.20		mg/L		06/06/22 16:08	06/08/22 21:40	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:40	1

Eurofins Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: MW-04
Date Collected: 05/23/22 13:57
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:40	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:40	1
Lithium	<0.010		0.010		mg/L		06/06/22 16:08	06/08/22 21:40	1
Molybdenum	0.019		0.0050		mg/L		06/06/22 16:08	06/08/22 21:40	1
Selenium	<0.0025		0.0025		mg/L		06/06/22 16:08	06/08/22 21:40	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	510		10		mg/L			05/25/22 02:48	1
Chloride	41		4.0		mg/L			05/27/22 12:59	2
Fluoride	0.61		0.10		mg/L			06/11/22 22:45	1
Sulfate	150		50		mg/L			05/27/22 14:28	10

Client Sample ID: MW-16
Date Collected: 05/23/22 15:05
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-5
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		06/06/22 16:08	06/08/22 21:43	1
Arsenic	0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:43	1
Barium	0.031		0.0025		mg/L		06/06/22 16:08	06/08/22 21:43	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:43	1
Boron	3.6		0.50		mg/L		06/06/22 16:08	06/09/22 13:34	10
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:43	1
Calcium	170		0.20		mg/L		06/06/22 16:08	06/08/22 21:43	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:43	1
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:43	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:43	1
Lithium	0.028		0.010		mg/L		06/06/22 16:08	06/08/22 21:43	1
Molybdenum	0.022		0.0050		mg/L		06/06/22 16:08	06/08/22 21:43	1
Selenium	0.033		0.0025		mg/L		06/06/22 16:08	06/08/22 21:43	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			05/25/22 02:50	1
Chloride	62		4.0		mg/L			05/27/22 12:59	2
Fluoride	0.53		0.10		mg/L			06/11/22 22:48	1
Sulfate	420		50		mg/L			05/27/22 14:29	10

Eurofins Chicago

Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: Duplicate

Lab Sample ID: 500-217068-6

Date Collected: 05/23/22 00:00

Matrix: Water

Date Received: 05/24/22 13:55

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		06/06/22 16:08	06/08/22 21:47	1
Arsenic	0.0086		0.0010		mg/L		06/06/22 16:08	06/08/22 21:47	1
Barium	0.040		0.0025		mg/L		06/06/22 16:08	06/08/22 21:47	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:47	1
Boron	2.6		0.50		mg/L		06/06/22 16:08	06/09/22 13:37	10
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:47	1
Calcium	90		0.20		mg/L		06/06/22 16:08	06/08/22 21:47	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:47	1
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:47	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:47	1
Lithium	<0.010		0.010		mg/L		06/06/22 16:08	06/08/22 21:47	1
Molybdenum	0.019		0.0050		mg/L		06/06/22 16:08	06/08/22 21:47	1
Selenium	<0.0025		0.0025		mg/L		06/06/22 16:08	06/08/22 21:47	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10		mg/L			05/25/22 02:53	1
Chloride	41		4.0		mg/L			05/27/22 13:29	2
Fluoride	0.59		0.10		mg/L			06/11/22 22:50	1
Sulfate	160		50		mg/L			05/27/22 15:12	10

Client Sample ID: MW-09

Lab Sample ID: 500-217068-7

Date Collected: 05/24/22 11:10

Matrix: Water

Date Received: 05/26/22 15:45

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		06/06/22 16:08	06/08/22 21:50	1
Arsenic	0.0019		0.0010		mg/L		06/06/22 16:08	06/08/22 21:50	1
Barium	0.020		0.0025		mg/L		06/06/22 16:08	06/08/22 21:50	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:50	1
Boron	5.3		1.0		mg/L		06/06/22 16:08	06/09/22 13:41	20
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:50	1
Calcium	150		0.20		mg/L		06/06/22 16:08	06/08/22 21:50	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:50	1
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:50	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:50	1
Lithium	0.054		0.010		mg/L		06/06/22 16:08	06/08/22 21:50	1
Molybdenum	0.18		0.0050		mg/L		06/06/22 16:08	06/08/22 21:50	1
Selenium	<0.0025		0.0025		mg/L		06/06/22 16:08	06/08/22 21:50	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 08:03	1

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: MW-09
Date Collected: 05/24/22 11:10
Date Received: 05/26/22 15:45

Lab Sample ID: 500-217068-7
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	940		10		mg/L			05/31/22 00:22	1
Chloride	180		20		mg/L			05/27/22 13:29	10
Fluoride	0.23		0.10		mg/L			06/11/22 22:54	1
Sulfate	200		50		mg/L			05/27/22 15:13	10

Client Sample ID: MW-11
Date Collected: 05/24/22 09:10
Date Received: 05/26/22 15:45

Lab Sample ID: 500-217068-8
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		06/06/22 16:08	06/08/22 21:54	1
Arsenic	0.18		0.0010		mg/L		06/06/22 16:08	06/08/22 21:54	1
Barium	0.041		0.0025		mg/L		06/06/22 16:08	06/08/22 21:54	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:54	1
Boron	1.8		0.25		mg/L		06/06/22 16:08	06/09/22 13:44	5
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:54	1
Calcium	150		0.20		mg/L		06/06/22 16:08	06/08/22 21:54	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:54	1
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:54	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:54	1
Lithium	0.037		0.010		mg/L		06/06/22 16:08	06/08/22 21:54	1
Molybdenum	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:54	1
Selenium	<0.0025		0.0025		mg/L		06/06/22 16:08	06/08/22 21:54	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 08:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	820		10		mg/L			05/31/22 00:29	1
Chloride	95		20		mg/L			05/27/22 13:30	10
Fluoride	0.14		0.10		mg/L			06/11/22 22:57	1
Sulfate	21		10		mg/L			05/27/22 15:13	2

Client Sample ID: MW-14
Date Collected: 05/24/22 10:08
Date Received: 05/26/22 15:45

Lab Sample ID: 500-217068-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.0038		0.0030		mg/L		06/06/22 16:08	06/08/22 22:04	1
Arsenic	0.60		0.0010		mg/L		06/06/22 16:08	06/08/22 22:04	1
Barium	0.042		0.0025		mg/L		06/06/22 16:08	06/08/22 22:04	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 22:04	1
Boron	0.62		0.050		mg/L		06/06/22 16:08	06/09/22 13:54	1
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 22:04	1
Calcium	120		0.20		mg/L		06/06/22 16:08	06/08/22 22:04	1
Chromium	0.028		0.0050		mg/L		06/06/22 16:08	06/08/22 22:04	1

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: MW-14

Lab Sample ID: 500-217068-9

Date Collected: 05/24/22 10:08

Matrix: Water

Date Received: 05/26/22 15:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 22:04	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 22:04	1
Lithium	0.012		0.010		mg/L		06/06/22 16:08	06/08/22 22:04	1
Molybdenum	0.0053		0.0050		mg/L		06/06/22 16:08	06/08/22 22:04	1
Selenium	<0.0025		0.0025		mg/L		06/06/22 16:08	06/08/22 22:04	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 22:04	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 08:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	570		10		mg/L			05/31/22 00:34	1
Chloride	33		4.0		mg/L			05/27/22 13:30	2
Fluoride	0.17		0.10		mg/L			06/11/22 23:11	1
Sulfate	43		10		mg/L			05/27/22 15:14	2

Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

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: Waukegan CCR Q2

Job ID: 500-217068-1

Metals

Prep Batch: 659755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total/NA	Water	7470A	
500-217068-2	MW-02	Total/NA	Water	7470A	
500-217068-3	MW-03	Total/NA	Water	7470A	
500-217068-4	MW-04	Total/NA	Water	7470A	
500-217068-5	MW-16	Total/NA	Water	7470A	
500-217068-6	Duplicate	Total/NA	Water	7470A	
500-217068-7	MW-09	Total/NA	Water	7470A	
500-217068-8	MW-11	Total/NA	Water	7470A	
500-217068-9	MW-14	Total/NA	Water	7470A	
MB 500-659755/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-659755/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-217068-7 MS	MW-09	Total/NA	Water	7470A	
500-217068-7 MSD	MW-09	Total/NA	Water	7470A	
500-217068-7 DU	MW-09	Total/NA	Water	7470A	

Analysis Batch: 659994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total/NA	Water	7470A	659755
500-217068-2	MW-02	Total/NA	Water	7470A	659755
500-217068-3	MW-03	Total/NA	Water	7470A	659755
500-217068-4	MW-04	Total/NA	Water	7470A	659755
500-217068-5	MW-16	Total/NA	Water	7470A	659755
500-217068-6	Duplicate	Total/NA	Water	7470A	659755
500-217068-7	MW-09	Total/NA	Water	7470A	659755
500-217068-8	MW-11	Total/NA	Water	7470A	659755
500-217068-9	MW-14	Total/NA	Water	7470A	659755
MB 500-659755/12-A	Method Blank	Total/NA	Water	7470A	659755
LCS 500-659755/13-A	Lab Control Sample	Total/NA	Water	7470A	659755
500-217068-7 MS	MW-09	Total/NA	Water	7470A	659755
500-217068-7 MSD	MW-09	Total/NA	Water	7470A	659755
500-217068-7 DU	MW-09	Total/NA	Water	7470A	659755

Prep Batch: 660019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total Recoverable	Water	3005A	
500-217068-2	MW-02	Total Recoverable	Water	3005A	
500-217068-3	MW-03	Total Recoverable	Water	3005A	
500-217068-4	MW-04	Total Recoverable	Water	3005A	
500-217068-5	MW-16	Total Recoverable	Water	3005A	
500-217068-6	Duplicate	Total Recoverable	Water	3005A	
500-217068-7	MW-09	Total Recoverable	Water	3005A	
500-217068-8	MW-11	Total Recoverable	Water	3005A	
500-217068-9	MW-14	Total Recoverable	Water	3005A	
MB 500-660019/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-660019/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 660498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total Recoverable	Water	6020A	660019
500-217068-2	MW-02	Total Recoverable	Water	6020A	660019
500-217068-3	MW-03	Total Recoverable	Water	6020A	660019

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Metals (Continued)

Analysis Batch: 660498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-4	MW-04	Total Recoverable	Water	6020A	660019
500-217068-5	MW-16	Total Recoverable	Water	6020A	660019
500-217068-6	Duplicate	Total Recoverable	Water	6020A	660019
500-217068-7	MW-09	Total Recoverable	Water	6020A	660019
500-217068-8	MW-11	Total Recoverable	Water	6020A	660019
500-217068-9	MW-14	Total Recoverable	Water	6020A	660019
MB 500-660019/1-A	Method Blank	Total Recoverable	Water	6020A	660019
LCS 500-660019/2-A	Lab Control Sample	Total Recoverable	Water	6020A	660019

Analysis Batch: 660585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total Recoverable	Water	6020A	660019
500-217068-2	MW-02	Total Recoverable	Water	6020A	660019
500-217068-3	MW-03	Total Recoverable	Water	6020A	660019
500-217068-4	MW-04	Total Recoverable	Water	6020A	660019
500-217068-5	MW-16	Total Recoverable	Water	6020A	660019
500-217068-6	Duplicate	Total Recoverable	Water	6020A	660019
500-217068-7	MW-09	Total Recoverable	Water	6020A	660019
500-217068-8	MW-11	Total Recoverable	Water	6020A	660019
500-217068-9	MW-14	Total Recoverable	Water	6020A	660019
MB 500-660019/1-A	Method Blank	Total Recoverable	Water	6020A	660019
LCS 500-660019/2-A	Lab Control Sample	Total Recoverable	Water	6020A	660019

General Chemistry

Analysis Batch: 658373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total/NA	Water	SM 2540C	
500-217068-2	MW-02	Total/NA	Water	SM 2540C	
500-217068-3	MW-03	Total/NA	Water	SM 2540C	
500-217068-4	MW-04	Total/NA	Water	SM 2540C	
500-217068-5	MW-16	Total/NA	Water	SM 2540C	
500-217068-6	Duplicate	Total/NA	Water	SM 2540C	
MB 500-658373/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-658373/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 658951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-217068-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-217068-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-217068-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-217068-5	MW-16	Total/NA	Water	SM 4500 CI- E	
500-217068-6	Duplicate	Total/NA	Water	SM 4500 CI- E	
500-217068-7	MW-09	Total/NA	Water	SM 4500 CI- E	
500-217068-8	MW-11	Total/NA	Water	SM 4500 CI- E	
500-217068-9	MW-14	Total/NA	Water	SM 4500 CI- E	
MB 500-658951/100	Method Blank	Total/NA	Water	SM 4500 CI- E	
MB 500-658951/58	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-658951/101	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
LCS 500-658951/59	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

General Chemistry (Continued)

Analysis Batch: 658951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-6 MS	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-217068-6 MSD	Duplicate	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 658956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-217068-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-217068-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-217068-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-217068-5	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-217068-6	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-217068-7	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-217068-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-217068-9	MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 500-658956/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-658956/58	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-658956/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-658956/59	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-217068-6 MS	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-217068-6 MSD	Duplicate	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 659084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-1	MW-01	Total/NA	Water	SM 4500 F C	
500-217068-2	MW-02	Total/NA	Water	SM 4500 F C	
MB 500-659084/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-659084/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 659110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-7	MW-09	Total/NA	Water	SM 2540C	
500-217068-8	MW-11	Total/NA	Water	SM 2540C	
500-217068-9	MW-14	Total/NA	Water	SM 2540C	
MB 500-659110/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-659110/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-217068-7 MS	MW-09	Total/NA	Water	SM 2540C	
500-217068-7 DU	MW-09	Total/NA	Water	SM 2540C	
500-217068-8 DU	MW-11	Total/NA	Water	SM 2540C	

Analysis Batch: 660856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-217068-3	MW-03	Total/NA	Water	SM 4500 F C	
500-217068-4	MW-04	Total/NA	Water	SM 4500 F C	
500-217068-5	MW-16	Total/NA	Water	SM 4500 F C	
500-217068-6	Duplicate	Total/NA	Water	SM 4500 F C	
500-217068-7	MW-09	Total/NA	Water	SM 4500 F C	
500-217068-8	MW-11	Total/NA	Water	SM 4500 F C	
500-217068-9	MW-14	Total/NA	Water	SM 4500 F C	
MB 500-660856/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-660856/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

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QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-660019/1-A
Matrix: Water
Analysis Batch: 660498

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 660019

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		06/06/22 16:08	06/08/22 21:22	1
Arsenic	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:22	1
Barium	<0.0025		0.0025		mg/L		06/06/22 16:08	06/08/22 21:22	1
Beryllium	<0.0010	^+	0.0010		mg/L		06/06/22 16:08	06/08/22 21:22	1
Cadmium	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:22	1
Calcium	<0.20		0.20		mg/L		06/06/22 16:08	06/08/22 21:22	1
Chromium	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:22	1
Cobalt	<0.0010		0.0010		mg/L		06/06/22 16:08	06/08/22 21:22	1
Lead	<0.00050		0.00050		mg/L		06/06/22 16:08	06/08/22 21:22	1
Lithium	<0.010		0.010		mg/L		06/06/22 16:08	06/08/22 21:22	1
Molybdenum	<0.0050		0.0050		mg/L		06/06/22 16:08	06/08/22 21:22	1
Selenium	<0.0025		0.0025		mg/L		06/06/22 16:08	06/08/22 21:22	1
Thallium	<0.0020		0.0020		mg/L		06/06/22 16:08	06/08/22 21:22	1

Lab Sample ID: MB 500-660019/1-A
Matrix: Water
Analysis Batch: 660585

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 660019

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		06/06/22 16:08	06/09/22 13:13	1

Lab Sample ID: LCS 500-660019/2-A
Matrix: Water
Analysis Batch: 660498

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 660019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0996		mg/L		100	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Beryllium	0.0500	0.0526	^+	mg/L		105	80 - 120
Cadmium	0.0500	0.0513		mg/L		103	80 - 120
Calcium	10.0	9.64		mg/L		96	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Cobalt	0.500	0.523		mg/L		105	80 - 120
Lead	0.100	0.103		mg/L		103	80 - 120
Lithium	0.100	0.103		mg/L		103	80 - 120
Molybdenum	1.00	0.949		mg/L		95	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-660019/2-A
Matrix: Water
Analysis Batch: 660585

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 660019

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

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-659755/12-A
Matrix: Water
Analysis Batch: 659994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 659755

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		06/03/22 09:55	06/06/22 07:46	1

Lab Sample ID: LCS 500-659755/13-A
Matrix: Water
Analysis Batch: 659994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 659755

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

Lab Sample ID: 500-217068-7 MS
Matrix: Water
Analysis Batch: 659994

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 659755

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000904		mg/L		90	75 - 125

Lab Sample ID: 500-217068-7 MSD
Matrix: Water
Analysis Batch: 659994

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 659755

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000895		mg/L		90	75 - 125	1	20

Lab Sample ID: 500-217068-7 DU
Matrix: Water
Analysis Batch: 659994

Client Sample ID: MW-09
Prep Type: Total/NA
Prep Batch: 659755

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

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

Lab Sample ID: MB 500-658373/1
Matrix: Water
Analysis Batch: 658373

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/25/22 01:54	1

Lab Sample ID: LCS 500-658373/2
Matrix: Water
Analysis Batch: 658373

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	276		mg/L		110	80 - 120

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

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

Lab Sample ID: MB 500-659110/1
Matrix: Water
Analysis Batch: 659110

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/30/22 23:51	1

Lab Sample ID: LCS 500-659110/2
Matrix: Water
Analysis Batch: 659110

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: 500-217068-7 MS
Matrix: Water
Analysis Batch: 659110

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	940		250	1240		mg/L		120	75 - 125

Lab Sample ID: 500-217068-7 DU
Matrix: Water
Analysis Batch: 659110

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

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	940			930		mg/L		1	5

Lab Sample ID: 500-217068-8 DU
Matrix: Water
Analysis Batch: 659110

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	820			792		mg/L		3	5

Method: SM 4500 CI- E - Chloride, Total

Lab Sample ID: MB 500-658951/100
Matrix: Water
Analysis Batch: 658951

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/27/22 13:28	1

Lab Sample ID: MB 500-658951/58
Matrix: Water
Analysis Batch: 658951

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/27/22 12:51	1

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

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

Lab Sample ID: LCS 500-658951/101
Matrix: Water
Analysis Batch: 658951

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.8		mg/L		104	85 - 115

Lab Sample ID: LCS 500-658951/59
Matrix: Water
Analysis Batch: 658951

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	20.7		mg/L		103	85 - 115

Lab Sample ID: 500-217068-6 MS
Matrix: Water
Analysis Batch: 658951

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	41		20.0	58.8		mg/L		87	75 - 125

Lab Sample ID: 500-217068-6 MSD
Matrix: Water
Analysis Batch: 658951

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Chloride	41		20.0	58.5		mg/L		86	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-659084/31
Matrix: Water
Analysis Batch: 659084

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/27/22 21:39	1

Lab Sample ID: LCS 500-659084/32
Matrix: Water
Analysis Batch: 659084

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	10.4		mg/L		104	90 - 119

Lab Sample ID: MB 500-660856/3
Matrix: Water
Analysis Batch: 660856

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			06/11/22 21:45	1

QC Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-660856/4
Matrix: Water
Analysis Batch: 660856

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	10.5		mg/L		105	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-658956/16
Matrix: Water
Analysis Batch: 658956

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/27/22 14:19	1

Lab Sample ID: MB 500-658956/58
Matrix: Water
Analysis Batch: 658956

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/27/22 15:11	1

Lab Sample ID: LCS 500-658956/17
Matrix: Water
Analysis Batch: 658956

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	20.4		mg/L		102	88 - 123

Lab Sample ID: LCS 500-658956/59
Matrix: Water
Analysis Batch: 658956

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	20.6		mg/L		103	88 - 123

Lab Sample ID: 500-217068-6 MS
Matrix: Water
Analysis Batch: 658956

Client Sample ID: Duplicate
Prep Type: Total/NA


Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	160		20.0	177	4	mg/L		96	75 - 125

Lab Sample ID: 500-217068-6 MSD
Matrix: Water
Analysis Batch: 658956

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	160		20.0	177	4	mg/L		95	75 - 125	0	20

Chain of Custody Record

Client Information				Sampler: <u>Mitchel Dolan + Katelyn Spelle</u>	Lab PM: <u>Mockler Diana J</u>	Carrier Tracking No(s)	COC No: <u>500-91227-40689 1</u>			
Client Contact: <u>Mitchel Dolan</u>				Phone: <u>262-622-1143</u>	E Mail: <u>Diana.Mockler@Eurofinset.com</u>	State of Origin: <u>IL</u>	Page: <u>Page 1 of 1</u>			
Company: <u>KPRG and Associates Inc</u>				PWSID	Analysis Request			Job #: <u>500 217068</u>		
Address: <u>14665 West Lisbon Road Suite 1A</u>		Due Date Requested		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 6010C - Lithium 6020A - 13 elements 7470A - Mercury 2540C - TDS 4500FC - Fluoride SM00CLE - Chloride SM4500SO4 - Sulfate 903 - Rad 226 904 - Rad 228 Rad Combined	500-217068 COC		Preservation Codes			
City: <u>Brookfield</u>		TAT Requested (days)					A HCL	M Hexane	Other:	
State Zip: <u>WI 53005</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No					B NaOH	N None		
Phone: <u>262-781-0475(Tel)</u>		PO #: <u>4502012555</u>					C Zn Acetate	O AsNaO2		
Email: <u>mitcheld@kprginc.com</u>		WO #					D Nitric Acid	P Na2O4S		
Project Name: <u>Quarterly Waukegan CCR</u>		Project #: <u>50011597</u>					E NaHSO4	Q Na2SO3		
Site: <u>Illinois</u>		SSOW#		F MeOH	R Na2S2O3					
Sample Identification				Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Total Number of Containers		Special Instructions/Note			
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	D					N	N
<u>MW-01</u>	<u>5/23/22 1059</u>	<u>G</u>	<u>W</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>		
<u>MW-02</u>	<u>5/23/22 1153</u>	<u>G</u>	<u>W</u>	<u>N</u>	<u>N</u>	<u> </u>	<u> </u>	<u> </u>		
<u>MW-03</u>	<u>5/23/22 1245</u>	<u>G</u>	<u>W</u>	<u>N</u>	<u>N</u>	<u> </u>	<u> </u>	<u> </u>		
<u>MW-04</u>	<u>5/23/22 1357</u>	<u>G</u>	<u>W</u>	<u>N</u>	<u>N</u>	<u> </u>	<u> </u>	<u> </u>		
<u>MW-16</u>	<u>5/23/22 1505</u>	<u>G</u>	<u>W</u>	<u>N</u>	<u>N</u>	<u> </u>	<u> </u>	<u> </u>		
<u>Duplicate</u>	<u>5/23/22 -</u>	<u>G</u>	<u>W</u>	<u>N</u>	<u>N</u>	<u> </u>	<u> </u>	<u> </u>		
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements						
Empty Kit Relinquished by				Date	Time	Method of Shipment				
Relinquished by: <u>MPO</u>				Date/Time: <u>5/23/22 1700</u>	Company: <u>KPRG</u>	Received by: <u>FEDEX</u>	Date/Time: <u>5/23/22 1700</u>	Company: <u>FEDEX</u>		
Relinquished by:				Date/Time:	Company:	Received by: <u>thin scott</u>	Date/Time: <u>1355</u>	Company: <u>BETA</u>		
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: <u>4.0 → 3.4, 0.4 → 0.1</u>		

Chain of Custody Record

Client Information		Sampler: <u>Kaelyn Sperle & Mitchell Dolan</u>		Lab PM: <u>Mockler Diana J</u>		Carrier Tracking No(s)		COC No: <u>500-91227-40689 1</u>																																																																																				
Client Contact: <u>Mitchel Dolan</u>		Phone: <u>262-781-0475</u>		E-Mail: <u>Diana Mockler@Eurofinset.com</u>		State of Origin: <u>IL</u>		Page: <u>Page 1 of 1</u>																																																																																				
Company: <u>KPRG and Associates Inc</u>		PWSID		Analysis Requested						Job #: <u>500-217088</u>																																																																																		
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State Zip: <u>WI 53005</u>		PO #: <u>4502012555</u>		<table border="1"> <tr> <td rowspan="5">Sample Identification</td> <td rowspan="5">Sample Date</td> <td rowspan="5">Sample Time</td> <td rowspan="5">Sample Type (C=Comp, G=grab)</td> <td rowspan="5">Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</td> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>D</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>D</td> <td>D</td> <td>D</td> <td rowspan="5">Special Instructions/Note</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>								Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D	N	N	N	N	D	D	D	Special Instructions/Note	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Project #: <u>50011597</u>																																				
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Phone: <u>262-781-0475(Tel)</u>		WO #: <u></u>		<table border="1"> <tr> <td rowspan="5">Sample Identification</td> <td rowspan="5">Sample Date</td> <td rowspan="5">Sample Time</td> <td rowspan="5">Sample Type (C=Comp, G=grab)</td> <td rowspan="5">Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</td> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>D</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>D</td> <td>D</td> <td>D</td> <td rowspan="5">Special Instructions/Note</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>								Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D	N	N	N	N	D	D	D	Special Instructions/Note	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Project #: <u>50011597</u>																																				
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Email: <u>mitcheld@kprginc.com</u>		SSOW#: <u></u>		<table border="1"> <tr> <td rowspan="5">Sample Identification</td> <td rowspan="5">Sample Date</td> <td rowspan="5">Sample Time</td> <td rowspan="5">Sample Type (C=Comp, G=grab)</td> <td rowspan="5">Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</td> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>D</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>D</td> <td>D</td> <td>D</td> <td rowspan="5">Special Instructions/Note</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>								Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D	N	N	N	N	D	D	D	Special Instructions/Note	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Project #: <u>50011597</u>																																				
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Project Name: <u>Quarterly Waukegan CCR</u>		SSOW#: <u></u>		<table border="1"> <tr> <td rowspan="5">Sample Identification</td> <td rowspan="5">Sample Date</td> <td rowspan="5">Sample Time</td> <td rowspan="5">Sample Type (C=Comp, G=grab)</td> <td rowspan="5">Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</td> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>D</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>D</td> <td>D</td> <td>D</td> <td rowspan="5">Special Instructions/Note</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>								Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D	N	N	N	N	D	D	D	Special Instructions/Note	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Project #: <u>50011597</u>																																				
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Site: <u>Illinois</u>		SSOW#: <u></u>		<table border="1"> <tr> <td rowspan="5">Sample Identification</td> <td rowspan="5">Sample Date</td> <td rowspan="5">Sample Time</td> <td rowspan="5">Sample Type (C=Comp, G=grab)</td> <td rowspan="5">Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</td> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform MS/MSD (Yes or No)</td> <td>D</td> <td>N</td> <td>N</td> <td>N</td> <td>N</td> <td>D</td> <td>D</td> <td>D</td> <td rowspan="5">Special Instructions/Note</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>								Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	D	N	N	N	N	D	D	D	Special Instructions/Note	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Project #: <u>50011597</u>																																				
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500-217088



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-217068-1

Login Number: 217068

List Number: 1

Creator: Hernandez, Stephanie

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.	False	
Cooler Temperature is recorded.	True	3.4,-0.1 Samples not frozen8.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: MW-01
Date Collected: 05/23/22 10:59
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 21:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	660585	06/09/22 13:20	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 07:50	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	658373	05/25/22 02:40	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	658951	05/27/22 12:57	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	659084	05/27/22 22:31	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	658956	05/27/22 14:56	LP	TAL CHI

Client Sample ID: MW-02
Date Collected: 05/23/22 11:53
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 21:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	660585	06/09/22 13:23	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 07:52	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	658373	05/25/22 02:43	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	658951	05/27/22 12:57	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	659084	05/27/22 22:34	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	658956	05/27/22 14:27	LP	TAL CHI

Client Sample ID: MW-03
Date Collected: 05/23/22 12:45
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 21:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	660585	06/09/22 13:27	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 07:55	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	658373	05/25/22 02:45	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	658951	05/27/22 12:58	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	660856	06/11/22 22:41	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	658956	05/27/22 14:28	LP	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: MW-04
Date Collected: 05/23/22 13:57
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 21:40	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	660585	06/09/22 13:30	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 07:57	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	658373	05/25/22 02:48	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	658951	05/27/22 12:59	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	660856	06/11/22 22:45	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	658956	05/27/22 14:28	LP	TAL CHI

Client Sample ID: MW-16
Date Collected: 05/23/22 15:05
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 21:43	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	660585	06/09/22 13:34	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 07:59	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	658373	05/25/22 02:50	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	658951	05/27/22 12:59	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	660856	06/11/22 22:48	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	658956	05/27/22 14:29	LP	TAL CHI

Client Sample ID: Duplicate
Date Collected: 05/23/22 00:00
Date Received: 05/24/22 13:55

Lab Sample ID: 500-217068-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 21:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		10	660585	06/09/22 13:37	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 08:01	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	658373	05/25/22 02:53	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	658951	05/27/22 13:29	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	660856	06/11/22 22:50	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	658956	05/27/22 15:12	LP	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Client Sample ID: MW-09

Lab Sample ID: 500-217068-7

Date Collected: 05/24/22 11:10

Matrix: Water

Date Received: 05/26/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 21:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		20	660585	06/09/22 13:41	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 08:03	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	659110	05/31/22 00:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	658951	05/27/22 13:29	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	660856	06/11/22 22:54	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	658956	05/27/22 15:13	LP	TAL CHI

Client Sample ID: MW-11

Lab Sample ID: 500-217068-8

Date Collected: 05/24/22 09:10

Matrix: Water

Date Received: 05/26/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 21:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		5	660585	06/09/22 13:44	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 08:17	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	659110	05/31/22 00:29	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	658951	05/27/22 13:30	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	660856	06/11/22 22:57	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	658956	05/27/22 15:13	LP	TAL CHI

Client Sample ID: MW-14

Lab Sample ID: 500-217068-9

Date Collected: 05/24/22 10:08

Matrix: Water

Date Received: 05/26/22 15:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660498	06/08/22 22:04	FXG	TAL CHI
Total Recoverable	Prep	3005A			660019	06/06/22 16:08	LMB	TAL CHI
Total Recoverable	Analysis	6020A		1	660585	06/09/22 13:54	FXG	TAL CHI
Total/NA	Prep	7470A			659755	06/03/22 09:55	MJG	TAL CHI
Total/NA	Analysis	7470A		1	659994	06/06/22 08:19	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	659110	05/31/22 00:34	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	658951	05/27/22 13:30	LP	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	660856	06/11/22 23:11	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		2	658956	05/27/22 15:14	LP	TAL CHI

Lab Chronicle

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

Laboratory References:

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

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Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Q2

Job ID: 500-217068-1

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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ANALYTICAL REPORT

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

Laboratory Job ID: 500-221195-1
Client Project/Site: Waukegan CCR

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

Attn: Richard Gnat



Authorized for release by:
9/23/2022 8:19:04 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: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-221195-1

Job ID: 500-221195-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-221195-1

Comments

No additional comments.

Receipt

The samples were received on 8/23/2022 10:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.8° C, 6.0° C and 9.2° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-04 (500-221195-4), MW-16 (500-221195-5) and Duplicate (500-221195-6). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

Metals

Method 6020A: The initial low level calibration verification (ICVL) result for batch 500-672561 was outside control limit for Beryllium. The bracketing low level calibration verification (CCVL) were within control limits. Sample results were non-detects, and have been reported as qualified data.

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

General Chemistry

Method SM 2540C: The TDS matrix duplicate (DU) % RPD precision was outside of control limits for the following sample in batch:672194 (500-221195-B-1 DU). The laboratory control standard (LCS) recovery met acceptance criteria

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: Waukegan CCR

Job ID: 500-221195-1

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: KPRG and Associates, Inc.
Project/Site: Waukegan CCR

Job ID: 500-221195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-221195-1	MW-01	Water	08/22/22 10:31	08/23/22 10:25
500-221195-2	MW-02	Water	08/22/22 11:19	08/23/22 10:25
500-221195-3	MW-03	Water	08/22/22 12:07	08/23/22 10:25
500-221195-4	MW-04	Water	08/22/22 12:57	08/23/22 10:25
500-221195-5	MW-16	Water	08/22/22 13:45	08/23/22 10:25
500-221195-6	Duplicate	Water	08/22/22 00:00	08/23/22 10:25
500-221195-7	MW-09	Water	08/23/22 10:53	08/24/22 09:35
500-221195-8	MW-11	Water	08/23/22 09:07	08/24/22 09:35
500-221195-9	MW-14	Water	08/23/22 09:59	08/24/22 09:35

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Client Sample Results

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

Job ID: 500-221195-1

Client Sample ID: MW-01
Date Collected: 08/22/22 10:31
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-1
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		08/30/22 07:50	08/30/22 17:08	1
Arsenic	0.023		0.0010		mg/L		08/30/22 07:50	08/30/22 17:08	1
Barium	0.027		0.0025		mg/L		08/30/22 07:50	08/30/22 17:08	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:08	1
Boron	2.8		0.50		mg/L		08/30/22 07:50	08/31/22 19:18	10
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:08	1
Calcium	52		0.20		mg/L		08/30/22 07:50	08/30/22 17:08	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:08	1
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:08	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:08	1
Lithium	<0.010		0.010		mg/L		08/30/22 07:50	08/30/22 17:08	1
Molybdenum	0.032		0.0050		mg/L		08/30/22 07:50	08/30/22 17:08	1
Selenium	<0.0025		0.0025		mg/L		08/30/22 07:50	08/30/22 17:08	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	430		10		mg/L			08/29/22 16:25	1
Chloride	43		4.0		mg/L			08/24/22 10:59	2
Fluoride	0.34		0.10		mg/L			08/29/22 14:25	1
Sulfate	190		50		mg/L			08/24/22 13:35	10

Client Sample ID: MW-02
Date Collected: 08/22/22 11:19
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-2
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		08/30/22 07:50	08/30/22 17:11	1
Arsenic	0.011		0.0010		mg/L		08/30/22 07:50	08/30/22 17:11	1
Barium	0.024		0.0025		mg/L		08/30/22 07:50	08/30/22 17:11	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:11	1
Boron	3.3		0.50		mg/L		08/30/22 07:50	08/31/22 19:22	10
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:11	1
Calcium	84		0.20		mg/L		08/30/22 07:50	08/30/22 17:11	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:11	1
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:11	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:11	1
Lithium	<0.010		0.010		mg/L		08/30/22 07:50	08/30/22 17:11	1
Molybdenum	0.029		0.0050		mg/L		08/30/22 07:50	08/30/22 17:11	1
Selenium	<0.0025		0.0025		mg/L		08/30/22 07:50	08/30/22 17:11	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:37	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-221195-1

Client Sample ID: MW-02
Date Collected: 08/22/22 11:19
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-2
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	650		10		mg/L			08/29/22 16:31	1
Chloride	33		4.0		mg/L			08/24/22 11:00	2
Fluoride	0.28		0.10		mg/L			08/29/22 14:28	1
Sulfate	220		50		mg/L			08/24/22 13:35	10

Client Sample ID: MW-03
Date Collected: 08/22/22 12:07
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-3
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		08/30/22 07:50	08/30/22 17:15	1
Arsenic	0.0054		0.0010		mg/L		08/30/22 07:50	08/30/22 17:15	1
Barium	0.020		0.0025		mg/L		08/30/22 07:50	08/30/22 17:15	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:15	1
Boron	1.8		0.25		mg/L		08/30/22 07:50	08/31/22 19:25	5
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:15	1
Calcium	80		0.20		mg/L		08/30/22 07:50	08/30/22 17:15	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:15	1
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:15	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:15	1
Lithium	<0.010		0.010		mg/L		08/30/22 07:50	08/30/22 17:15	1
Molybdenum	0.026		0.0050		mg/L		08/30/22 07:50	08/30/22 17:15	1
Selenium	0.0040		0.0025		mg/L		08/30/22 07:50	08/30/22 17:15	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	570		10		mg/L			08/29/22 16:33	1
Chloride	45		4.0		mg/L			08/24/22 11:00	2
Fluoride	0.20		0.10		mg/L			08/29/22 14:37	1
Sulfate	180		50		mg/L			08/24/22 13:36	10

Client Sample ID: MW-04
Date Collected: 08/22/22 12:57
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-4
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		08/30/22 07:50	08/30/22 17:18	1
Arsenic	0.0070		0.0010		mg/L		08/30/22 07:50	08/30/22 17:18	1
Barium	0.043		0.0025		mg/L		08/30/22 07:50	08/30/22 17:18	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:18	1
Boron	3.1	F1	0.50		mg/L		08/30/22 07:50	08/31/22 19:28	10
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:18	1
Calcium	100		0.20		mg/L		08/30/22 07:50	08/30/22 17:18	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:18	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-221195-1

Client Sample ID: MW-04
Date Collected: 08/22/22 12:57
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:18	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:18	1
Lithium	<0.010		0.010		mg/L		08/30/22 07:50	08/30/22 17:18	1
Molybdenum	0.025		0.0050		mg/L		08/30/22 07:50	08/30/22 17:18	1
Selenium	0.011		0.0025		mg/L		08/30/22 07:50	08/30/22 17:18	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	660		10		mg/L			08/29/22 16:35	1
Chloride	31		4.0		mg/L			08/24/22 11:01	2
Fluoride	0.55		0.10		mg/L			08/29/22 14:39	1
Sulfate	230		25		mg/L			08/24/22 13:36	5

Client Sample ID: MW-16
Date Collected: 08/22/22 13:45
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-5
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		08/30/22 07:50	08/30/22 17:42	1
Arsenic	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:42	1
Barium	0.029		0.0025		mg/L		08/30/22 07:50	08/30/22 17:42	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:42	1
Boron	2.7		0.50		mg/L		08/30/22 07:50	08/31/22 19:52	10
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:42	1
Calcium	110		0.20		mg/L		08/30/22 07:50	08/30/22 17:42	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:42	1
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:42	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:42	1
Lithium	0.011		0.010		mg/L		08/30/22 07:50	08/30/22 17:42	1
Molybdenum	0.021		0.0050		mg/L		08/30/22 07:50	08/30/22 17:42	1
Selenium	<0.0025		0.0025		mg/L		08/30/22 07:50	08/30/22 17:42	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	780		10		mg/L			08/29/22 16:37	1
Chloride	42		4.0		mg/L			08/24/22 11:01	2
Fluoride	0.62		0.10		mg/L			08/29/22 14:41	1
Sulfate	280		100		mg/L			08/24/22 13:36	20

Eurofins Chicago

Client Sample Results

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

Job ID: 500-221195-1

Client Sample ID: Duplicate

Lab Sample ID: 500-221195-6

Date Collected: 08/22/22 00:00

Matrix: Water

Date Received: 08/23/22 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/30/22 07:50	08/30/22 17:45	1
Arsenic	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:45	1
Barium	0.029		0.0025		mg/L		08/30/22 07:50	08/30/22 17:45	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:45	1
Boron	2.6		0.50		mg/L		08/30/22 07:50	08/31/22 19:56	10
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:45	1
Calcium	120		0.20		mg/L		08/30/22 07:50	08/30/22 17:45	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:45	1
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:45	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:45	1
Lithium	0.010		0.010		mg/L		08/30/22 07:50	08/30/22 17:45	1
Molybdenum	0.021		0.0050		mg/L		08/30/22 07:50	08/30/22 17:45	1
Selenium	<0.0025		0.0025		mg/L		08/30/22 07:50	08/30/22 17:45	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	810		10		mg/L			08/29/22 16:39	1
Chloride	43		4.0		mg/L			08/24/22 11:01	2
Fluoride	0.62		0.10		mg/L			08/29/22 14:44	1
Sulfate	290		100		mg/L			08/24/22 13:37	20

Client Sample ID: MW-09

Lab Sample ID: 500-221195-7

Date Collected: 08/23/22 10:53

Matrix: Water

Date Received: 08/24/22 09:35

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		08/30/22 07:50	08/30/22 17:49	1
Arsenic	0.0012		0.0010		mg/L		08/30/22 07:50	08/30/22 17:49	1
Barium	0.046		0.0025		mg/L		08/30/22 07:50	08/30/22 17:49	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:49	1
Boron	12		5.0		mg/L		08/30/22 07:50	08/31/22 19:59	100
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:49	1
Calcium	170		0.20		mg/L		08/30/22 07:50	08/30/22 17:49	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:49	1
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:49	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:49	1
Lithium	0.048		0.010		mg/L		08/30/22 07:50	08/30/22 17:49	1
Molybdenum	0.21		0.0050		mg/L		08/30/22 07:50	08/30/22 17:49	1
Selenium	0.0034		0.0025		mg/L		08/30/22 07:50	08/30/22 17:49	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:51	1

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Client Sample Results

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

Job ID: 500-221195-1

Client Sample ID: MW-09

Date Collected: 08/23/22 10:53

Date Received: 08/24/22 09:35

Lab Sample ID: 500-221195-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			08/30/22 15:06	1
Chloride	170		20		mg/L			08/25/22 14:19	10
Fluoride	0.22		0.10		mg/L			08/29/22 14:46	1
Sulfate	290		50		mg/L			08/25/22 15:30	10

Client Sample ID: MW-11

Date Collected: 08/23/22 09:07

Date Received: 08/24/22 09:35

Lab Sample ID: 500-221195-8

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		08/30/22 07:50	08/30/22 17:52	1
Arsenic	0.43		0.0010		mg/L		08/30/22 07:50	08/30/22 17:52	1
Barium	0.053		0.0025		mg/L		08/30/22 07:50	08/30/22 17:52	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:52	1
Boron	1.4		0.50		mg/L		08/30/22 07:50	08/31/22 20:03	10
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:52	1
Calcium	140		0.20		mg/L		08/30/22 07:50	08/30/22 17:52	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:52	1
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:52	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:52	1
Lithium	0.031		0.010		mg/L		08/30/22 07:50	08/30/22 17:52	1
Molybdenum	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:52	1
Selenium	<0.0025		0.0025		mg/L		08/30/22 07:50	08/30/22 17:52	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	780		10		mg/L			08/30/22 15:08	1
Chloride	97		10		mg/L			08/25/22 14:20	5
Fluoride	0.18		0.10		mg/L			08/29/22 14:49	1
Sulfate	30		10		mg/L			08/25/22 15:31	2

Client Sample ID: MW-14

Date Collected: 08/23/22 09:59

Date Received: 08/24/22 09:35

Lab Sample ID: 500-221195-9

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		08/30/22 07:50	08/30/22 17:55	1
Arsenic	2.7		0.0010		mg/L		08/30/22 07:50	08/30/22 17:55	1
Barium	0.057		0.0025		mg/L		08/30/22 07:50	08/30/22 17:55	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:55	1
Boron	0.58		0.050		mg/L		08/30/22 07:50	08/31/22 20:06	1
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:55	1
Calcium	150		0.20		mg/L		08/30/22 07:50	08/30/22 17:55	1
Chromium	0.034		0.0050		mg/L		08/30/22 07:50	08/30/22 17:55	1

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Client Sample Results

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

Job ID: 500-221195-1

Client Sample ID: MW-14

Lab Sample ID: 500-221195-9

Date Collected: 08/23/22 09:59

Matrix: Water

Date Received: 08/24/22 09:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:55	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:55	1
Lithium	0.012		0.010		mg/L		08/30/22 07:50	08/30/22 17:55	1
Molybdenum	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:55	1
Selenium	<0.0025		0.0025		mg/L		08/30/22 07:50	08/30/22 17:55	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:55	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	740		10		mg/L			08/30/22 15:10	1
Chloride	52		4.0		mg/L			08/25/22 14:20	2
Fluoride	0.15		0.10		mg/L			08/29/22 14:51	1
Sulfate	28		10		mg/L			08/25/22 15:31	2

Definitions/Glossary

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

Job ID: 500-221195-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1-	Initial Calibration Verification (ICV) is outside acceptance limits, low biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control 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: Waukegan CCR

Job ID: 500-221195-1

Metals

Prep Batch: 672129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total/NA	Water	7470A	
500-221195-2	MW-02	Total/NA	Water	7470A	
500-221195-3	MW-03	Total/NA	Water	7470A	
500-221195-4	MW-04	Total/NA	Water	7470A	
500-221195-5	MW-16	Total/NA	Water	7470A	
500-221195-6	Duplicate	Total/NA	Water	7470A	
500-221195-7	MW-09	Total/NA	Water	7470A	
500-221195-8	MW-11	Total/NA	Water	7470A	
500-221195-9	MW-14	Total/NA	Water	7470A	
MB 500-672129/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-672129/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-221195-1 MS	MW-01	Total/NA	Water	7470A	
500-221195-1 MSD	MW-01	Total/NA	Water	7470A	
500-221195-1 DU	MW-01	Total/NA	Water	7470A	

Prep Batch: 672233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total Recoverable	Water	3005A	
500-221195-2	MW-02	Total Recoverable	Water	3005A	
500-221195-3	MW-03	Total Recoverable	Water	3005A	
500-221195-4	MW-04	Total Recoverable	Water	3005A	
500-221195-5	MW-16	Total Recoverable	Water	3005A	
500-221195-6	Duplicate	Total Recoverable	Water	3005A	
500-221195-7	MW-09	Total Recoverable	Water	3005A	
500-221195-8	MW-11	Total Recoverable	Water	3005A	
500-221195-9	MW-14	Total Recoverable	Water	3005A	
MB 500-672233/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-672233/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-221195-4 MS	MW-04	Total Recoverable	Water	3005A	
500-221195-4 MSD	MW-04	Total Recoverable	Water	3005A	
500-221195-4 DU	MW-04	Total Recoverable	Water	3005A	

Analysis Batch: 672331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total/NA	Water	7470A	672129
500-221195-2	MW-02	Total/NA	Water	7470A	672129
500-221195-3	MW-03	Total/NA	Water	7470A	672129
500-221195-4	MW-04	Total/NA	Water	7470A	672129
500-221195-5	MW-16	Total/NA	Water	7470A	672129
500-221195-6	Duplicate	Total/NA	Water	7470A	672129
500-221195-7	MW-09	Total/NA	Water	7470A	672129
500-221195-8	MW-11	Total/NA	Water	7470A	672129
500-221195-9	MW-14	Total/NA	Water	7470A	672129
MB 500-672129/12-A	Method Blank	Total/NA	Water	7470A	672129
LCS 500-672129/13-A	Lab Control Sample	Total/NA	Water	7470A	672129
500-221195-1 MS	MW-01	Total/NA	Water	7470A	672129
500-221195-1 MSD	MW-01	Total/NA	Water	7470A	672129
500-221195-1 DU	MW-01	Total/NA	Water	7470A	672129

QC Association Summary

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

Job ID: 500-221195-1

Metals

Analysis Batch: 672561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total Recoverable	Water	6020A	672233
500-221195-2	MW-02	Total Recoverable	Water	6020A	672233
500-221195-3	MW-03	Total Recoverable	Water	6020A	672233
500-221195-4	MW-04	Total Recoverable	Water	6020A	672233
500-221195-5	MW-16	Total Recoverable	Water	6020A	672233
500-221195-6	Duplicate	Total Recoverable	Water	6020A	672233
500-221195-7	MW-09	Total Recoverable	Water	6020A	672233
500-221195-8	MW-11	Total Recoverable	Water	6020A	672233
500-221195-9	MW-14	Total Recoverable	Water	6020A	672233
MB 500-672233/1-A	Method Blank	Total Recoverable	Water	6020A	672233
LCS 500-672233/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672233
500-221195-4 MS	MW-04	Total Recoverable	Water	6020A	672233
500-221195-4 MSD	MW-04	Total Recoverable	Water	6020A	672233
500-221195-4 DU	MW-04	Total Recoverable	Water	6020A	672233

Analysis Batch: 672787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total Recoverable	Water	6020A	672233
500-221195-2	MW-02	Total Recoverable	Water	6020A	672233
500-221195-3	MW-03	Total Recoverable	Water	6020A	672233
500-221195-4	MW-04	Total Recoverable	Water	6020A	672233
500-221195-5	MW-16	Total Recoverable	Water	6020A	672233
500-221195-6	Duplicate	Total Recoverable	Water	6020A	672233
500-221195-7	MW-09	Total Recoverable	Water	6020A	672233
500-221195-8	MW-11	Total Recoverable	Water	6020A	672233
500-221195-9	MW-14	Total Recoverable	Water	6020A	672233
MB 500-672233/1-A	Method Blank	Total Recoverable	Water	6020A	672233
LCS 500-672233/2-A	Lab Control Sample	Total Recoverable	Water	6020A	672233
500-221195-4 MS	MW-04	Total Recoverable	Water	6020A	672233
500-221195-4 MSD	MW-04	Total Recoverable	Water	6020A	672233
500-221195-4 DU	MW-04	Total Recoverable	Water	6020A	672233

General Chemistry

Analysis Batch: 671502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-221195-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-221195-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-221195-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-221195-5	MW-16	Total/NA	Water	SM 4500 CI- E	
500-221195-6	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-671502/52	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-671502/53	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 671521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-221195-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-221195-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-221195-4	MW-04	Total/NA	Water	SM 4500 SO4 E	

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QC Association Summary

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

Job ID: 500-221195-1

General Chemistry (Continued)

Analysis Batch: 671521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-5	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-221195-6	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-671521/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-671521/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 671760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-7	MW-09	Total/NA	Water	SM 4500 CI- E	
500-221195-8	MW-11	Total/NA	Water	SM 4500 CI- E	
500-221195-9	MW-14	Total/NA	Water	SM 4500 CI- E	
MB 500-671760/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-671760/17	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
500-221195-7	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-221195-8	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-221195-9	MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 500-671776/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-671776/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 672194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total/NA	Water	SM 2540C	
500-221195-2	MW-02	Total/NA	Water	SM 2540C	
500-221195-3	MW-03	Total/NA	Water	SM 2540C	
500-221195-4	MW-04	Total/NA	Water	SM 2540C	
500-221195-5	MW-16	Total/NA	Water	SM 2540C	
500-221195-6	Duplicate	Total/NA	Water	SM 2540C	
MB 500-672194/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-672194/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-221195-1 MS	MW-01	Total/NA	Water	SM 2540C	
500-221195-1 DU	MW-01	Total/NA	Water	SM 2540C	

Analysis Batch: 672211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-1	MW-01	Total/NA	Water	SM 4500 F C	
500-221195-2	MW-02	Total/NA	Water	SM 4500 F C	
500-221195-3	MW-03	Total/NA	Water	SM 4500 F C	
500-221195-4	MW-04	Total/NA	Water	SM 4500 F C	
500-221195-5	MW-16	Total/NA	Water	SM 4500 F C	
500-221195-6	Duplicate	Total/NA	Water	SM 4500 F C	
500-221195-7	MW-09	Total/NA	Water	SM 4500 F C	
500-221195-8	MW-11	Total/NA	Water	SM 4500 F C	
500-221195-9	MW-14	Total/NA	Water	SM 4500 F C	
MB 500-672211/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-672211/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 672355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-7	MW-09	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-221195-1

General Chemistry (Continued)

Analysis Batch: 672355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-221195-8	MW-11	Total/NA	Water	SM 2540C	
500-221195-9	MW-14	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	

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

QC Sample Results

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

Job ID: 500-221195-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-672233/1-A
Matrix: Water
Analysis Batch: 672561

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		08/30/22 07:50	08/30/22 17:01	1
Arsenic	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:01	1
Barium	<0.0025		0.0025		mg/L		08/30/22 07:50	08/30/22 17:01	1
Beryllium	<0.0010	^1-	0.0010		mg/L		08/30/22 07:50	08/30/22 17:01	1
Cadmium	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:01	1
Calcium	<0.20		0.20		mg/L		08/30/22 07:50	08/30/22 17:01	1
Chromium	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:01	1
Cobalt	<0.0010		0.0010		mg/L		08/30/22 07:50	08/30/22 17:01	1
Lead	<0.00050		0.00050		mg/L		08/30/22 07:50	08/30/22 17:01	1
Lithium	<0.010		0.010		mg/L		08/30/22 07:50	08/30/22 17:01	1
Molybdenum	<0.0050		0.0050		mg/L		08/30/22 07:50	08/30/22 17:01	1
Selenium	<0.0025		0.0025		mg/L		08/30/22 07:50	08/30/22 17:01	1
Thallium	<0.0020		0.0020		mg/L		08/30/22 07:50	08/30/22 17:01	1

Lab Sample ID: MB 500-672233/1-A
Matrix: Water
Analysis Batch: 672787

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		08/30/22 07:50	08/31/22 19:11	1

Lab Sample ID: LCS 500-672233/2-A
Matrix: Water
Analysis Batch: 672561

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0989		mg/L		99	80 - 120
Barium	0.500	0.514		mg/L		103	80 - 120
Beryllium	0.0500	0.0477	^1-	mg/L		95	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Calcium	10.0	10.7		mg/L		107	80 - 120
Chromium	0.200	0.186		mg/L		93	80 - 120
Cobalt	0.500	0.461		mg/L		92	80 - 120
Lead	0.100	0.0976		mg/L		98	80 - 120
Lithium	0.100	0.103		mg/L		103	80 - 120
Molybdenum	1.00	0.923		mg/L		92	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Thallium	0.100	0.0943		mg/L		94	80 - 120

Lab Sample ID: LCS 500-672233/2-A
Matrix: Water
Analysis Batch: 672787

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 672233

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

QC Sample Results

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

Job ID: 500-221195-1

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

Lab Sample ID: 500-221195-4 MS
Matrix: Water
Analysis Batch: 672561

Client Sample ID: MW-04
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.469		mg/L		94	75 - 125
Arsenic	0.0070		0.100	0.110		mg/L		103	75 - 125
Barium	0.043		0.500	0.535		mg/L		98	75 - 125
Beryllium	<0.0010	^1-	0.0500	0.0485	^1-	mg/L		97	75 - 125
Cadmium	<0.00050		0.0500	0.0521		mg/L		104	75 - 125
Calcium	100		10.0	110	4	mg/L		72	75 - 125
Chromium	<0.0050		0.200	0.180		mg/L		90	75 - 125
Cobalt	<0.0010		0.500	0.449		mg/L		90	75 - 125
Lead	<0.00050		0.100	0.0977		mg/L		98	75 - 125
Lithium	<0.010		0.100	0.103		mg/L		103	75 - 125
Molybdenum	0.025		1.00	0.945		mg/L		92	75 - 125
Selenium	0.011		0.100	0.118		mg/L		108	75 - 125
Thallium	<0.0020		0.100	0.0950		mg/L		95	75 - 125

Lab Sample ID: 500-221195-4 MS
Matrix: Water
Analysis Batch: 672787

Client Sample ID: MW-04
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	3.1	F1	1.00	4.41	F1	mg/L		131	75 - 125

Lab Sample ID: 500-221195-4 MSD
Matrix: Water
Analysis Batch: 672561

Client Sample ID: MW-04
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.472		mg/L		94	75 - 125	1	20
Arsenic	0.0070		0.100	0.111		mg/L		104	75 - 125	1	20
Barium	0.043		0.500	0.546		mg/L		101	75 - 125	2	20
Beryllium	<0.0010	^1-	0.0500	0.0536	^1-	mg/L		107	75 - 125	10	20
Cadmium	<0.00050		0.0500	0.0481		mg/L		96	75 - 125	8	20
Calcium	100		10.0	113	4	mg/L		106	75 - 125	3	20
Chromium	<0.0050		0.200	0.191		mg/L		95	75 - 125	6	20
Cobalt	<0.0010		0.500	0.466		mg/L		93	75 - 125	4	20
Lead	<0.00050		0.100	0.100		mg/L		100	75 - 125	3	20
Lithium	<0.010		0.100	0.107		mg/L		107	75 - 125	4	20
Molybdenum	0.025		1.00	0.946		mg/L		92	75 - 125	0	20
Selenium	0.011		0.100	0.119		mg/L		109	75 - 125	1	20
Thallium	<0.0020		0.100	0.0966		mg/L		97	75 - 125	2	20

Lab Sample ID: 500-221195-4 MSD
Matrix: Water
Analysis Batch: 672787

Client Sample ID: MW-04
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	3.1	F1	1.00	3.84	F1	mg/L		73	75 - 125	14	20

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QC Sample Results

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

Job ID: 500-221195-1

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

Lab Sample ID: 500-221195-4 DU
Matrix: Water
Analysis Batch: 672561

Client Sample ID: MW-04
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0070		0.00724		mg/L		4	20
Barium	0.043		0.0435		mg/L		2	20
Beryllium	<0.0010	^1-	<0.0010	^1-	mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	100		98.8		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	<0.010		<0.010		mg/L		NC	20
Molybdenum	0.025		0.0241		mg/L		5	20
Selenium	0.011		0.0113		mg/L		6	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-221195-4 DU
Matrix: Water
Analysis Batch: 672787

Client Sample ID: MW-04
Prep Type: Total Recoverable
Prep Batch: 672233

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	3.1	F1	2.85		mg/L		8	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-672129/12-A
Matrix: Water
Analysis Batch: 672331

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 672129

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		08/29/22 10:30	08/30/22 09:03	1

Lab Sample ID: LCS 500-672129/13-A
Matrix: Water
Analysis Batch: 672331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 672129

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

Lab Sample ID: 500-221195-1 MS
Matrix: Water
Analysis Batch: 672331

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 672129

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125

Lab Sample ID: 500-221195-1 MSD
Matrix: Water
Analysis Batch: 672331

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 672129

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Mercury	<0.00020		0.00100	0.000993		mg/L		99	75 - 125	2	20

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QC Sample Results

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

Job ID: 500-221195-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-221195-1 DU
Matrix: Water
Analysis Batch: 672331

Client Sample ID: MW-01
Prep Type: Total/NA
Prep Batch: 672129

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 500-672194/1
Matrix: Water
Analysis Batch: 672194

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			08/29/22 16:15	1

Lab Sample ID: LCS 500-672194/2
Matrix: Water
Analysis Batch: 672194

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	300		mg/L		120	80 - 120

Lab Sample ID: 500-221195-1 MS
Matrix: Water
Analysis Batch: 672194

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
Total Dissolved Solids	430		250	738		mg/L		123	75 - 125

Lab Sample ID: 500-221195-1 DU
Matrix: Water
Analysis Batch: 672194

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Total Dissolved Solids	430		456	F3	mg/L		6	5

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

QC Sample Results

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

Job ID: 500-221195-1

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-671502/52
Matrix: Water
Analysis Batch: 671502

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			08/24/22 10:57	1

Lab Sample ID: LCS 500-671502/53
Matrix: Water
Analysis Batch: 671502

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	20.0		mg/L		100	85 - 115

Lab Sample ID: MB 500-671760/16
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 14:17	1

Lab Sample ID: LCS 500-671760/17
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	19.8		mg/L		99	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-672211/31
Matrix: Water
Analysis Batch: 672211

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			08/29/22 13:44	1

Lab Sample ID: LCS 500-672211/32
Matrix: Water
Analysis Batch: 672211

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	11.2		mg/L		112	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-671521/16
Matrix: Water
Analysis Batch: 671521

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			08/24/22 13:31	1

QC Sample Results

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

Job ID: 500-221195-1

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

Lab Sample ID: LCS 500-671521/17
Matrix: Water
Analysis Batch: 671521

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	21.1		mg/L		106	88 - 123

Lab Sample ID: MB 500-671776/16
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 15:28	1

Lab Sample ID: LCS 500-671776/17
Matrix: Water
Analysis Batch: 671776

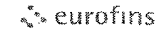
Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.1		mg/L		105	88 - 123

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

Chain of Custody Record

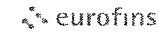


Client Information		Sampler <i>Mitchel Dolan</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)		COC No 500-104255-44027 1					
Client Contact Mitchel Dolan		Phone <i>262-622-1143</i>		E-Mail Diana Mockler@et.eurofinsus.com		State of Origin <i>IL</i>		Page Page 1 of 1					
Company KPRG and Associates Inc.		PWSID		Analysis Requested						Job # <i>500-221/95</i>			
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		Field Filtered Sample (Yes or No) Pattern MS/MSD (Yes or No) 903.0, 904.0 6010C 6020A, 7470A 2540C, 4500_F_C 5M4500_CI_E, 5M4500_S04_E (8200-7000-7000)		Total Number of Containers		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 C AsNaO2		D Nitric Acid P Na2O4S			
Phone 262-781-0475(Tel) 500-221195 COC		PO # 4502102435						E NaHSO4 Q Na2SO5		F MeOH R Na2S2O5			
Email mitcheld@kprginc.com		WO #		G Amchlor S H2SO4		H Ascorbic Acid T TsP Dodecahydrate		I Ice U Acetone					
Project Name Waukegan CCR Event Desc: Quarterly Waukegan CCR		Project # 50011587		J DI Water V MCAA		K EDTA W pH 4-5		L EDA Y T.zma		Z other specify)			
Site: Illinois		SSOW#		Other									
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note			
1 MW-01		8/22/22		1031		G		Water		No Turbidity Analysis			
2 MW-02		8/22/22		1119		G		Water					
3 MW-03		8/22/22		1207		G		Water					
4 MW-04		8/22/22		1257		G		Water					
5 MW-16		8/22/22		1345		G		Water					
6 Duplicate		8/22/22		-		G		Water					
7								Water					
8								Water					
9								Water					
10								Water					
11								Water					
12								Water					
13								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>me</i>				Date/Time: <i>8/22/22 / 1600</i>		Company: <i>KPRG</i>		Received by: <i>FEDEX</i>		Date/Time: <i>8/22/22 / 1600</i>		Company: <i>FEDEX</i>	
Relinquished by				Date/Time		Company		Received by: <i>Ann Scott</i>		Date/Time: <i>8/23/22 1025</i>		Company: <i>KPRG</i>	
Relinquished by				Date/Time		Company		Received by		Date/Time		Company	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <i>6.2+0.0, 0.4 → 9.2</i>									

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

Chain of Custody Record



Client Information			Sampler <i>Mitchel Dolan</i>		Lab PM Mockler Diana J		Carrier Tracking No(s)			COC No. 500-104255-44027 1		
Client Contact Mitchel Dolan			Phone <i>262-622-1143</i>		E-Mail Diana.Mockler@et.eurofinsus.com			State of Origin <i>IL</i>			Page Page 1 of 1	
Company KPRG and Associates Inc.			PWSID:		Analysis Requested					Job #: <i>500-22195</i>		
Address. 14665 West Lisbon Road Suite 1A			Due Date Requested:							Preservation Codes		Total Number of Containers
City Brookfield			TAT Requested (days) <i>Standard</i>		Field Filtered Sample (Yes or No)		Perform MS/MS/D (Yes or No)		A HCL M Hexane		Other	
State, Zip WI 53005			Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No		903.0, 904.0		6010C, 6020A, 7470A		B NaOH N None		S pH 4-5	
Phone. 262-781-0475(Tel)			ID#: 502102435		2540C, 4500_F_C, SMA4500_SO4_E		400.4, Toxicity		C AsNaO2 P Na2O4S		T TSP Dodecahydrate	
Email mitchdel@kprginc.com			Project #: 50011597		BT=Tissue, A=Air				D Nitric Acid Q Na2SO5		U Acetone	
Project Name Waukegan CCR Event Desc: Quarterly Waukegan CCR			SSOW#:						E NaHSO4 R Na2S2O3		V MCAA	
Site Illinois									F MeOH S H2SO4		W other specify)	
Sample Identification			Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Special Instructions/Note	
<i>MW-09</i>			<i>8/23/22</i>		<i>1053</i>		<i>G</i>		<i>Water</i>		<i>N U K A K</i>	
<i>MW-11</i>			<i>8/23/22</i>		<i>0907</i>		<i>G</i>		<i>Water</i>		<i>N U K A K</i>	
<i>MW-14</i>			<i>8/23/22</i>		<i>0954</i>		<i>G</i>		<i>Water</i>		<i>N U K A K</i>	
<i>Water</i>												
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<i>Water</i>												
<i>Water</i>												



500-221195 COC

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

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

Deliverable Requested I II III IV Other (specify) Special Instructions/QC Requirements.

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

Relinquished by <i>Me</i>	Date/Time: <i>8/23/22 / 1600</i>	Company <i>KPRG</i>	Received by <i>FEDEX</i>	Date/Time: <i>8/23/22 / 1600</i>	Company <i>FEDEX</i>
Relinquished by	Date/Time:	Company	Received by <i>FEDEX</i>	Date/Time: <i>8/24/22 / 0935</i>	Company <i>FEDEX</i>
Relinquished by	Date/Time:	Company	Received by	Date/Time:	Company

Custody Seals Intact: Yes No Custody Seal No. _____ Cooler Temperature(s) °C and Other Remarks *4/→20*

1
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13

ORIGIN ID: FEPA (262) 729-5865
KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 22AUG22
ACTWGT: 49.10 LB
CAD: 6994085/SSFE2321
DIMS: 25x14x14 IN

BILL THIRD PARTY

Part # 158297435 RRDBF EXP 01/23

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST



UNIVERSITY PARK IL 60484

500-221195 Waybi

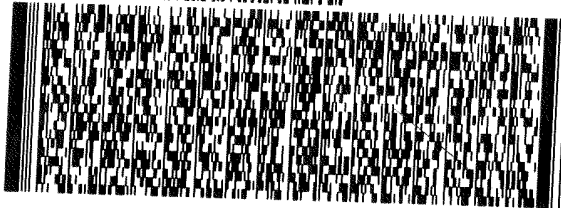
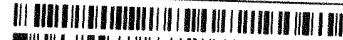
(708) 634-6200

INU:

REF:

PO:

DEPT:



FedEx Express



2 of 4

MPS# 2770 8035 3186
0263

Mstr# 2770 8035 3175

0201

79 JOTA

TUE - 23 AUG 10:30A
PRIORITY OVERNIGHT

60484

IL-US ORD



RT 519

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3197
08 23

ORIGIN ID: FEPA (262) 729-5

ST 22

KAELYN SPERLE
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

Part # 158297435 RRDBF EXP 01/23

TO EUROFINS CHICAGO
EUROFINS CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

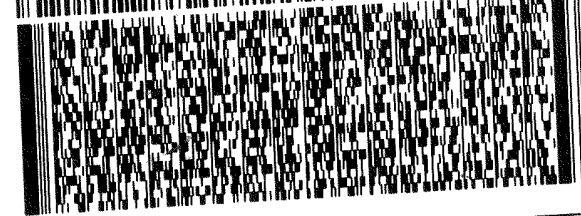
(708) 634-6200

INU:

REF:

PO:

DEPT:



FedEx Express



3 of 4

MPS# 2770 8035 3197
0263

Mstr# 2770 8035 3175

0201

79 JOTA

TUE - 23 AUG 10:30A
PRIORITY OVERNIGHT

60484

IL-US ORD



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ORIGIN ID:FEPA (262) 278-1621

KPRG AND ASSOCIATES
414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 23AUG22
ACTWTG: 52.75 LB
CAD: 6994085/SSFE2321
DIMS: 26x14x14 IN

BILL THIRD PARTY

Part # 156297-435 RRDBF EXP 01/23

TO **ATTN: SAMPLE COLLECTION**
EUROFINS CHICAGO
2417 BOND ST



UNIVERSITY PARK IL 60484

(708) 534-5200

REF:

500-2211954Waybi

INU:

PO:

DEPT:



FedEx
Express



4 of 4

MPS# 2771 2544 9943

Mstr# 2771 2544 9910

0201

WED - 24 AUG 10:30A
PRIORITY OVERNIGHT

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60484
IL-US ORD



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:		Lab PM:		COC No:	
Client Contact: Shipping/Receiving		Mockler, Diana J		500-164531-1		Camer Tracking No(s):	
Company: TestAmerica Laboratories, Inc.		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin: Illinois		Page: Page 1 of 1	
Address: 13715 Rider Trail North,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-221195-1		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 Z - other (specify)	
City: Earth City		Due Date Requested: 9/13/2022		Analysis Requested		Special Instructions/Note:	
State, Zip: MO, 63045		TAT Requested (days):		Field Filtered Sample (Yes or No)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:		Perform MS/MSD (Yes or No)		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Email:		WO #:		903.0/PreSep_21 Standard Target List		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Project Name: Waukegan CCR		Project #: 50011597		904.0/PreSep_0 Standard Target List		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Site: NRG Midwest Generation Waukegan		SSOW#:		Raz26Raz28_GFPc		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, A=Air)	Preservation Code:	Total Number of Containers	Special Instructions/Note:
MW-01 (500-221195-1)	8/22/22	10:31 Central	Water	Water	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-02 (500-221195-2)	8/22/22	11:19 Central	Water	Water	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-03 (500-221195-3)	8/22/22	12:07 Central	Water	Water	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-04 (500-221195-4)	8/22/22	12:57 Central	Water	Water	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
MW-16 (500-221195-5)	8/22/22	13:45 Central	Water	Water	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;
Duplicate (500-221195-6)	8/22/22	Central	Water	Water	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume;

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: Method of Shipment:
 Relinquished by: *Stephanie Hammonds* Date/Time: 8/13/22 10:00 Company: *EETA*
 Relinquished by: *FED EX* Date/Time: Date/Time: Received by: *Suma Worthington* Date/Time: *AUG 24 2022 0910* Company: *ENR*
 Relinquished by: Date/Time: Date/Time: Received by: Date/Time: Company: *ENR*

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-221195-1

Login Number: 221195

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	6.0,9.2,2.8
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: Waukegan CCR

Job ID: 500-221195-1

Client Sample ID: MW-01
Date Collected: 08/22/22 10:31
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:08
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		10	672787	FXG	EET CHI	08/31/22 19:18
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:28
Total/NA	Analysis	SM 2540C		1	672194	SMO	EET CHI	08/29/22 16:25
Total/NA	Analysis	SM 4500 CI- E		2	671502	LP	EET CHI	08/24/22 10:59
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:25
Total/NA	Analysis	SM 4500 SO4 E		10	671521	LP	EET CHI	08/24/22 13:35

Client Sample ID: MW-02
Date Collected: 08/22/22 11:19
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:11
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		10	672787	FXG	EET CHI	08/31/22 19:22
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:37
Total/NA	Analysis	SM 2540C		1	672194	SMO	EET CHI	08/29/22 16:31
Total/NA	Analysis	SM 4500 CI- E		2	671502	LP	EET CHI	08/24/22 11:00
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:28
Total/NA	Analysis	SM 4500 SO4 E		10	671521	LP	EET CHI	08/24/22 13:35

Client Sample ID: MW-03
Date Collected: 08/22/22 12:07
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:15
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		5	672787	FXG	EET CHI	08/31/22 19:25
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:39
Total/NA	Analysis	SM 2540C		1	672194	SMO	EET CHI	08/29/22 16:33
Total/NA	Analysis	SM 4500 CI- E		2	671502	LP	EET CHI	08/24/22 11:00
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:37
Total/NA	Analysis	SM 4500 SO4 E		10	671521	LP	EET CHI	08/24/22 13:36

Lab Chronicle

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

Job ID: 500-221195-1

Client Sample ID: MW-04
Date Collected: 08/22/22 12:57
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:18
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		10	672787	FXG	EET CHI	08/31/22 19:28
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:45
Total/NA	Analysis	SM 2540C		1	672194	SMO	EET CHI	08/29/22 16:35
Total/NA	Analysis	SM 4500 CI- E		2	671502	LP	EET CHI	08/24/22 11:01
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:39
Total/NA	Analysis	SM 4500 SO4 E		5	671521	LP	EET CHI	08/24/22 13:36

Client Sample ID: MW-16
Date Collected: 08/22/22 13:45
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:42
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		10	672787	FXG	EET CHI	08/31/22 19:52
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:47
Total/NA	Analysis	SM 2540C		1	672194	SMO	EET CHI	08/29/22 16:37
Total/NA	Analysis	SM 4500 CI- E		2	671502	LP	EET CHI	08/24/22 11:01
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:41
Total/NA	Analysis	SM 4500 SO4 E		20	671521	LP	EET CHI	08/24/22 13:36

Client Sample ID: Duplicate
Date Collected: 08/22/22 00:00
Date Received: 08/23/22 10:25

Lab Sample ID: 500-221195-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:45
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		10	672787	FXG	EET CHI	08/31/22 19:56
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:49
Total/NA	Analysis	SM 2540C		1	672194	SMO	EET CHI	08/29/22 16:39
Total/NA	Analysis	SM 4500 CI- E		2	671502	LP	EET CHI	08/24/22 11:01
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:44
Total/NA	Analysis	SM 4500 SO4 E		20	671521	LP	EET CHI	08/24/22 13:37

Lab Chronicle

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

Job ID: 500-221195-1

Client Sample ID: MW-09

Date Collected: 08/23/22 10:53

Date Received: 08/24/22 09:35

Lab Sample ID: 500-221195-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:49
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		100	672787	FXG	EET CHI	08/31/22 19:59
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:51
Total/NA	Analysis	SM 2540C		1	672355	SMO	EET CHI	08/30/22 15:06
Total/NA	Analysis	SM 4500 CI- E		10	671760	LP	EET CHI	08/25/22 14:19
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:46
Total/NA	Analysis	SM 4500 SO4 E		10	671776	LP	EET CHI	08/25/22 15:30

Client Sample ID: MW-11

Date Collected: 08/23/22 09:07

Date Received: 08/24/22 09:35

Lab Sample ID: 500-221195-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:52
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		10	672787	FXG	EET CHI	08/31/22 20:03
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:54
Total/NA	Analysis	SM 2540C		1	672355	SMO	EET CHI	08/30/22 15:08
Total/NA	Analysis	SM 4500 CI- E		5	671760	LP	EET CHI	08/25/22 14:20
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:49
Total/NA	Analysis	SM 4500 SO4 E		2	671776	LP	EET CHI	08/25/22 15:31

Client Sample ID: MW-14

Date Collected: 08/23/22 09:59

Date Received: 08/24/22 09:35

Lab Sample ID: 500-221195-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672561	FXG	EET CHI	08/30/22 17:55
Total Recoverable	Prep	3005A			672233	BDE	EET CHI	08/30/22 07:50 - 08/30/22 08:20 ¹
Total Recoverable	Analysis	6020A		1	672787	FXG	EET CHI	08/31/22 20:06
Total/NA	Prep	7470A			672129	MJG	EET CHI	08/29/22 10:30 - 08/29/22 12:30 ¹
Total/NA	Analysis	7470A		1	672331	MJG	EET CHI	08/30/22 09:56
Total/NA	Analysis	SM 2540C		1	672355	SMO	EET CHI	08/30/22 15:10
Total/NA	Analysis	SM 4500 CI- E		2	671760	LP	EET CHI	08/25/22 14:20
Total/NA	Analysis	SM 4500 F C		1	672211	EAT	EET CHI	08/29/22 14:51
Total/NA	Analysis	SM 4500 SO4 E		2	671776	LP	EET CHI	08/25/22 15:31

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

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

Job ID: 500-221195-1

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 500-221195-1

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

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

Generated 12/2/2022 10:37:31 AM

JOB DESCRIPTION

Waukegan CCR

JOB NUMBER

500-225046-1

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
12/2/2022 10:37:31 AM

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: Waukegan CCR

Job ID: 500-225046-1

Job ID: 500-225046-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-225046-1**

Comments

No additional comments.

Receipt

The samples were received on 11/8/2022 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.9° C, 1.2° C and 5.9° C.

Metals

Method 6020A: The low level continuing calibration verification (ICVL/CCVL) associated with batch 500-685597 recovered above the upper control limit for Beryllium. The samples associated with this ICVL/CCVL 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: Waukegan CCR

Job ID: 500-225046-1

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 PEN
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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Sample Summary

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

Job ID: 500-225046-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-225046-1	MW-01	Water	11/07/22 10:26	11/08/22 10:20
500-225046-2	MW-02	Water	11/07/22 11:24	11/08/22 10:20
500-225046-3	MW-03	Water	11/07/22 12:20	11/08/22 10:20
500-225046-4	MW-04	Water	11/07/22 13:54	11/08/22 10:20
500-225046-5	MW-09	Water	11/07/22 15:58	11/08/22 10:20
500-225046-6	MW-16	Water	11/07/22 15:00	11/08/22 10:20
500-225046-7	MW-11	Water	11/08/22 13:58	11/09/22 10:30
500-225046-8	MW-14	Water	11/08/22 12:53	11/09/22 10:30
500-225046-9	Duplicate	Water	11/08/22 00:00	11/09/22 10:30

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

Client Sample Results

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

Job ID: 500-225046-1

Client Sample ID: MW-01

Lab Sample ID: 500-225046-1

Date Collected: 11/07/22 10:26

Matrix: Water

Date Received: 11/08/22 10:20

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		11/16/22 08:32	11/16/22 21:55	1
Arsenic	0.024		0.0010		mg/L		11/16/22 08:32	11/16/22 21:55	1
Barium	0.030		0.0025		mg/L		11/16/22 08:32	11/16/22 21:55	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 21:55	1
Boron	3.0		0.25		mg/L		11/16/22 08:32	11/17/22 15:47	5
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 21:55	1
Calcium	59		0.20		mg/L		11/16/22 08:32	11/16/22 21:55	1
Chromium	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 21:55	1
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 21:55	1
Lead	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 21:55	1
Lithium	<0.010		0.010		mg/L		11/16/22 08:32	11/16/22 21:55	1
Molybdenum	0.026		0.0050		mg/L		11/16/22 08:32	11/16/22 21:55	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 21:55	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 21:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 08:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	460		10		mg/L			11/14/22 01:10	1
Chloride (SM 4500 Cl- E)	48		10		mg/L			11/23/22 10:05	5
Fluoride (SM 4500 F C)	0.43		0.10		mg/L			11/11/22 16:15	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			11/21/22 11:17	10

Client Sample ID: MW-02

Lab Sample ID: 500-225046-2

Date Collected: 11/07/22 11:24

Matrix: Water

Date Received: 11/08/22 10:20

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		11/16/22 08:32	11/16/22 21:59	1
Arsenic	0.013		0.0010		mg/L		11/16/22 08:32	11/16/22 21:59	1
Barium	0.033		0.0025		mg/L		11/16/22 08:32	11/16/22 21:59	1
Beryllium	0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 21:59	1
Boron	3.5		0.50		mg/L		11/16/22 08:32	11/17/22 15:51	10
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 21:59	1
Calcium	120		0.20		mg/L		11/16/22 08:32	11/16/22 21:59	1
Chromium	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 21:59	1
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 21:59	1
Lead	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 21:59	1
Lithium	<0.010		0.010		mg/L		11/16/22 08:32	11/16/22 21:59	1
Molybdenum	0.028		0.0050		mg/L		11/16/22 08:32	11/16/22 21:59	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 21:59	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 21:59	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 08:59	1

Eurofins Chicago

Client Sample Results

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

Job ID: 500-225046-1

Client Sample ID: MW-02

Lab Sample ID: 500-225046-2

Date Collected: 11/07/22 11:24

Matrix: Water

Date Received: 11/08/22 10:20

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	700		10		mg/L			11/14/22 01:13	1
Chloride (SM 4500 Cl- E)	36		10		mg/L			11/23/22 10:06	5
Fluoride (SM 4500 F C)	0.29		0.10		mg/L			11/11/22 16:15	1
Sulfate (SM 4500 SO4 E)	270		50		mg/L			11/21/22 11:18	10

Client Sample ID: MW-03

Lab Sample ID: 500-225046-3

Date Collected: 11/07/22 12:20

Matrix: Water

Date Received: 11/08/22 10:20

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		11/16/22 08:32	11/16/22 22:02	1
Arsenic	0.0055		0.0010		mg/L		11/16/22 08:32	11/16/22 22:02	1
Barium	0.021		0.0025		mg/L		11/16/22 08:32	11/16/22 22:02	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 22:02	1
Boron	2.3		0.25		mg/L		11/16/22 08:32	11/17/22 15:54	5
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 22:02	1
Calcium	82		0.20		mg/L		11/16/22 08:32	11/16/22 22:02	1
Chromium	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 22:02	1
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 22:02	1
Lead	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 22:02	1
Lithium	<0.010		0.010		mg/L		11/16/22 08:32	11/16/22 22:02	1
Molybdenum	0.035		0.0050		mg/L		11/16/22 08:32	11/16/22 22:02	1
Selenium	0.0040		0.0025		mg/L		11/16/22 08:32	11/16/22 22:02	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 22:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 09:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	520		10		mg/L			11/14/22 01:15	1
Chloride (SM 4500 Cl- E)	50		10		mg/L			11/23/22 10:06	5
Fluoride (SM 4500 F C)	0.35		0.10		mg/L			11/11/22 16:15	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			11/21/22 11:18	10

Client Sample ID: MW-04

Lab Sample ID: 500-225046-4

Date Collected: 11/07/22 13:54

Matrix: Water

Date Received: 11/08/22 10:20

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		11/16/22 08:32	11/16/22 22:05	1
Arsenic	0.0073		0.0010		mg/L		11/16/22 08:32	11/16/22 22:05	1
Barium	0.026		0.0025		mg/L		11/16/22 08:32	11/16/22 22:05	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 22:05	1
Boron	2.7		0.25		mg/L		11/16/22 08:32	11/17/22 15:58	5
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 22:05	1
Calcium	63		0.20		mg/L		11/16/22 08:32	11/16/22 22:05	1
Chromium	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 22:05	1

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Client Sample Results

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

Job ID: 500-225046-1

Client Sample ID: MW-04
Date Collected: 11/07/22 13:54
Date Received: 11/08/22 10:20

Lab Sample ID: 500-225046-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 22:05	1
Lead	0.0048		0.00050		mg/L		11/16/22 08:32	11/16/22 22:05	1
Lithium	<0.010		0.010		mg/L		11/16/22 08:32	11/16/22 22:05	1
Molybdenum	0.026		0.0050		mg/L		11/16/22 08:32	11/16/22 22:05	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 22:05	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 22:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 09:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	450		10		mg/L			11/14/22 01:18	1
Chloride (SM 4500 Cl- E)	33		10		mg/L			11/23/22 10:06	5
Fluoride (SM 4500 F C)	0.62		0.10		mg/L			11/11/22 16:15	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			11/21/22 11:18	10

Client Sample ID: MW-09
Date Collected: 11/07/22 15:58
Date Received: 11/08/22 10:20

Lab Sample ID: 500-225046-5
Matrix: Water

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		11/16/22 08:32	11/16/22 22:16	1
Arsenic	0.0083		0.0010		mg/L		11/16/22 08:32	11/16/22 22:16	1
Barium	0.14		0.0025		mg/L		11/16/22 08:32	11/16/22 22:16	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 22:16	1
Boron	6.4		1.0		mg/L		11/16/22 08:32	11/17/22 16:08	20
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 22:16	1
Calcium	160		0.20		mg/L		11/16/22 08:32	11/16/22 22:16	1
Chromium	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 22:16	1
Cobalt	0.0013		0.0010		mg/L		11/16/22 08:32	11/16/22 22:16	1
Lead	0.0034		0.00050		mg/L		11/16/22 08:32	11/16/22 22:16	1
Lithium	0.057		0.010		mg/L		11/16/22 08:32	11/16/22 22:16	1
Molybdenum	0.088		0.0050		mg/L		11/16/22 08:32	11/16/22 22:16	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 22:16	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 22:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			11/14/22 01:20	1
Chloride (SM 4500 Cl- E)	200		20		mg/L			11/23/22 10:06	10
Fluoride (SM 4500 F C)	0.51		0.10		mg/L			11/11/22 16:15	1
Sulfate (SM 4500 SO4 E)	220		50		mg/L			11/21/22 11:19	10

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Client Sample Results

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

Job ID: 500-225046-1

Client Sample ID: MW-16

Lab Sample ID: 500-225046-6

Date Collected: 11/07/22 15:00

Matrix: Water

Date Received: 11/08/22 10:20

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		11/16/22 08:32	11/16/22 22:19	1
Arsenic	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 22:19	1
Barium	0.031		0.0025		mg/L		11/16/22 08:32	11/16/22 22:19	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 22:19	1
Boron	3.0		0.50		mg/L		11/16/22 08:32	11/17/22 16:12	10
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 22:19	1
Calcium	120		0.20		mg/L		11/16/22 08:32	11/16/22 22:19	1
Chromium	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 22:19	1
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 22:19	1
Lead	0.0038		0.00050		mg/L		11/16/22 08:32	11/16/22 22:19	1
Lithium	0.011		0.010		mg/L		11/16/22 08:32	11/16/22 22:19	1
Molybdenum	0.021		0.0050		mg/L		11/16/22 08:32	11/16/22 22:19	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 22:19	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 22:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	730		10		mg/L			11/14/22 01:23	1
Chloride (SM 4500 Cl- E)	47		10		mg/L			11/23/22 10:07	5
Fluoride (SM 4500 F C)	0.80		0.10		mg/L			11/11/22 16:15	1
Sulfate (SM 4500 SO4 E)	290		50		mg/L			11/21/22 11:19	10

Client Sample ID: MW-11

Lab Sample ID: 500-225046-7

Date Collected: 11/08/22 13:58

Matrix: Water

Date Received: 11/09/22 10:30

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		11/16/22 08:32	11/16/22 22:22	1
Arsenic	0.55		0.0010		mg/L		11/16/22 08:32	11/16/22 22:22	1
Barium	0.064		0.0025		mg/L		11/16/22 08:32	11/16/22 22:22	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 22:22	1
Boron	1.4		0.25		mg/L		11/16/22 08:32	11/17/22 16:15	5
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 22:22	1
Calcium	150		0.20		mg/L		11/16/22 08:32	11/16/22 22:22	1
Chromium	0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 22:22	1
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 22:22	1
Lead	0.0032		0.00050		mg/L		11/16/22 08:32	11/16/22 22:22	1
Lithium	0.034		0.010		mg/L		11/16/22 08:32	11/16/22 22:22	1
Molybdenum	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 22:22	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 22:22	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 22:22	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 09:10	1

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Client Sample Results

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

Job ID: 500-225046-1

Client Sample ID: MW-11

Date Collected: 11/08/22 13:58

Date Received: 11/09/22 10:30

Lab Sample ID: 500-225046-7

Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	790		10		mg/L			11/15/22 03:35	1
Chloride (SM 4500 Cl- E)	100		20		mg/L			11/23/22 10:07	10
Fluoride (SM 4500 F C)	0.21		0.10		mg/L			11/16/22 12:15	1
Sulfate (SM 4500 SO4 E)	26		25		mg/L			11/21/22 11:58	5

Client Sample ID: MW-14

Date Collected: 11/08/22 12:53

Date Received: 11/09/22 10:30

Lab Sample ID: 500-225046-8

Matrix: Water

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		11/16/22 08:32	11/16/22 22:26	1
Arsenic	2.1		0.0010		mg/L		11/16/22 08:32	11/16/22 22:26	1
Barium	0.053		0.0025		mg/L		11/16/22 08:32	11/16/22 22:26	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 22:26	1
Boron	0.65		0.050		mg/L		11/16/22 08:32	11/17/22 16:19	1
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 22:26	1
Calcium	150		0.20		mg/L		11/16/22 08:32	11/16/22 22:26	1
Chromium	0.099		0.0050		mg/L		11/16/22 08:32	11/16/22 22:26	1
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 22:26	1
Lead	0.0034		0.00050		mg/L		11/16/22 08:32	11/16/22 22:26	1
Lithium	0.019		0.010		mg/L		11/16/22 08:32	11/16/22 22:26	1
Molybdenum	0.0051		0.0050		mg/L		11/16/22 08:32	11/16/22 22:26	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 22:26	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 22:26	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	650		10		mg/L			11/15/22 03:38	1
Chloride (SM 4500 Cl- E)	46		10		mg/L			11/23/22 10:07	5
Fluoride (SM 4500 F C)	0.20		0.10		mg/L			11/16/22 12:20	1
Sulfate (SM 4500 SO4 E)	28		10		mg/L			11/21/22 11:37	2

Client Sample ID: Duplicate

Date Collected: 11/08/22 00:00

Date Received: 11/09/22 10:30

Lab Sample ID: 500-225046-9

Matrix: Water

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		11/16/22 08:32	11/16/22 22:29	1
Arsenic	0.55		0.0010		mg/L		11/16/22 08:32	11/16/22 22:29	1
Barium	0.062		0.0025		mg/L		11/16/22 08:32	11/16/22 22:29	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 22:29	1
Boron	1.4		0.25		mg/L		11/16/22 08:32	11/17/22 16:22	5
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 22:29	1
Calcium	150		0.20		mg/L		11/16/22 08:32	11/16/22 22:29	1
Chromium	0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 22:29	1

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Client Sample Results

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

Job ID: 500-225046-1

Client Sample ID: Duplicate

Lab Sample ID: 500-225046-9

Date Collected: 11/08/22 00:00

Matrix: Water

Date Received: 11/09/22 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 22:29	1
Lead	0.0035		0.00050		mg/L		11/16/22 08:32	11/16/22 22:29	1
Lithium	0.031		0.010		mg/L		11/16/22 08:32	11/16/22 22:29	1
Molybdenum	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 22:29	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 22:29	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 22:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	780		10		mg/L			11/15/22 03:41	1
Chloride (SM 4500 Cl- E)	98		10		mg/L			11/23/22 10:08	5
Fluoride (SM 4500 F C)	0.19		0.10		mg/L			11/16/22 12:23	1
Sulfate (SM 4500 SO4 E)	30		10		mg/L			11/21/22 12:14	2

Definitions/Glossary

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

Job ID: 500-225046-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^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.
▫	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: Waukegan CCR

Job ID: 500-225046-1

Metals

Prep Batch: 685236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total Recoverable	Water	3005A	
500-225046-2	MW-02	Total Recoverable	Water	3005A	
500-225046-3	MW-03	Total Recoverable	Water	3005A	
500-225046-4	MW-04	Total Recoverable	Water	3005A	
500-225046-5	MW-09	Total Recoverable	Water	3005A	
500-225046-6	MW-16	Total Recoverable	Water	3005A	
500-225046-7	MW-11	Total Recoverable	Water	3005A	
500-225046-8	MW-14	Total Recoverable	Water	3005A	
500-225046-9	Duplicate	Total Recoverable	Water	3005A	
MB 500-685236/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-685236/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 685597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total Recoverable	Water	6020A	685236
500-225046-2	MW-02	Total Recoverable	Water	6020A	685236
500-225046-3	MW-03	Total Recoverable	Water	6020A	685236
500-225046-4	MW-04	Total Recoverable	Water	6020A	685236
500-225046-5	MW-09	Total Recoverable	Water	6020A	685236
500-225046-6	MW-16	Total Recoverable	Water	6020A	685236
500-225046-7	MW-11	Total Recoverable	Water	6020A	685236
500-225046-8	MW-14	Total Recoverable	Water	6020A	685236
500-225046-9	Duplicate	Total Recoverable	Water	6020A	685236
MB 500-685236/1-A	Method Blank	Total Recoverable	Water	6020A	685236
LCS 500-685236/2-A	Lab Control Sample	Total Recoverable	Water	6020A	685236

Prep Batch: 685598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total/NA	Water	7470A	
500-225046-2	MW-02	Total/NA	Water	7470A	
500-225046-3	MW-03	Total/NA	Water	7470A	
500-225046-4	MW-04	Total/NA	Water	7470A	
500-225046-5	MW-09	Total/NA	Water	7470A	
500-225046-6	MW-16	Total/NA	Water	7470A	
500-225046-7	MW-11	Total/NA	Water	7470A	
500-225046-8	MW-14	Total/NA	Water	7470A	
500-225046-9	Duplicate	Total/NA	Water	7470A	
MB 500-685598/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-685598/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 685896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total/NA	Water	7470A	685598
500-225046-2	MW-02	Total/NA	Water	7470A	685598
500-225046-3	MW-03	Total/NA	Water	7470A	685598
500-225046-4	MW-04	Total/NA	Water	7470A	685598
500-225046-5	MW-09	Total/NA	Water	7470A	685598
500-225046-6	MW-16	Total/NA	Water	7470A	685598
500-225046-7	MW-11	Total/NA	Water	7470A	685598
500-225046-8	MW-14	Total/NA	Water	7470A	685598
500-225046-9	Duplicate	Total/NA	Water	7470A	685598

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QC Association Summary

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

Job ID: 500-225046-1

Metals (Continued)

Analysis Batch: 685896 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-685598/12-A	Method Blank	Total/NA	Water	7470A	685598
LCS 500-685598/13-A	Lab Control Sample	Total/NA	Water	7470A	685598

Analysis Batch: 685905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total Recoverable	Water	6020A	685236
500-225046-2	MW-02	Total Recoverable	Water	6020A	685236
500-225046-3	MW-03	Total Recoverable	Water	6020A	685236
500-225046-4	MW-04	Total Recoverable	Water	6020A	685236
500-225046-5	MW-09	Total Recoverable	Water	6020A	685236
500-225046-6	MW-16	Total Recoverable	Water	6020A	685236
500-225046-7	MW-11	Total Recoverable	Water	6020A	685236
500-225046-8	MW-14	Total Recoverable	Water	6020A	685236
500-225046-9	Duplicate	Total Recoverable	Water	6020A	685236
MB 500-685236/1-A	Method Blank	Total Recoverable	Water	6020A	685236
LCS 500-685236/2-A	Lab Control Sample	Total Recoverable	Water	6020A	685236

General Chemistry

Analysis Batch: 600348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total/NA	Water	SM 4500 F C	
500-225046-2	MW-02	Total/NA	Water	SM 4500 F C	
500-225046-3	MW-03	Total/NA	Water	SM 4500 F C	
500-225046-4	MW-04	Total/NA	Water	SM 4500 F C	
500-225046-5	MW-09	Total/NA	Water	SM 4500 F C	
500-225046-6	MW-16	Total/NA	Water	SM 4500 F C	
MB 400-600348/10	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-600348/13	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-600348/12	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-225046-6 DU	MW-16	Total/NA	Water	SM 4500 F C	

Analysis Batch: 600791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-7	MW-11	Total/NA	Water	SM 4500 F C	
500-225046-8	MW-14	Total/NA	Water	SM 4500 F C	
500-225046-9	Duplicate	Total/NA	Water	SM 4500 F C	
MB 400-600791/33	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 400-600791/36	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MRL 400-600791/35	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 684716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total/NA	Water	SM 2540C	
500-225046-2	MW-02	Total/NA	Water	SM 2540C	
500-225046-3	MW-03	Total/NA	Water	SM 2540C	
500-225046-4	MW-04	Total/NA	Water	SM 2540C	
500-225046-5	MW-09	Total/NA	Water	SM 2540C	
500-225046-6	MW-16	Total/NA	Water	SM 2540C	
MB 500-684716/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-684716/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-225046-1

General Chemistry

Analysis Batch: 684918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-7	MW-11	Total/NA	Water	SM 2540C	
500-225046-8	MW-14	Total/NA	Water	SM 2540C	
500-225046-9	Duplicate	Total/NA	Water	SM 2540C	
MB 500-684918/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-684918/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 686338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-225046-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-225046-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-225046-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-225046-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-225046-6	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-225046-7	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-225046-8	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-225046-9	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-686338/50	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 500-686338/87	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-686338/51	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 500-686338/88	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-225046-7 MS	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-225046-7 MSD	MW-11	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 686775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-225046-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-225046-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-225046-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-225046-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-225046-5	MW-09	Total/NA	Water	SM 4500 CI- E	
500-225046-6	MW-16	Total/NA	Water	SM 4500 CI- E	
500-225046-7	MW-11	Total/NA	Water	SM 4500 CI- E	
500-225046-8	MW-14	Total/NA	Water	SM 4500 CI- E	
500-225046-9	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-686775/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-686775/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

QC Sample Results

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

Job ID: 500-225046-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-685236/1-A
Matrix: Water
Analysis Batch: 685597

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 685236

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		11/16/22 08:32	11/16/22 20:54	1
Arsenic	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 20:54	1
Barium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 20:54	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		11/16/22 08:32	11/16/22 20:54	1
Cadmium	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 20:54	1
Calcium	<0.20		0.20		mg/L		11/16/22 08:32	11/16/22 20:54	1
Chromium	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 20:54	1
Cobalt	<0.0010		0.0010		mg/L		11/16/22 08:32	11/16/22 20:54	1
Lead	<0.00050		0.00050		mg/L		11/16/22 08:32	11/16/22 20:54	1
Lithium	<0.010		0.010		mg/L		11/16/22 08:32	11/16/22 20:54	1
Molybdenum	<0.0050		0.0050		mg/L		11/16/22 08:32	11/16/22 20:54	1
Selenium	<0.0025		0.0025		mg/L		11/16/22 08:32	11/16/22 20:54	1
Thallium	<0.0020		0.0020		mg/L		11/16/22 08:32	11/16/22 20:54	1

Lab Sample ID: MB 500-685236/1-A
Matrix: Water
Analysis Batch: 685905

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 685236

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		11/16/22 08:32	11/17/22 14:55	1

Lab Sample ID: LCS 500-685236/2-A
Matrix: Water
Analysis Batch: 685597

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 685236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Beryllium	0.0500	0.0494	^1+ ^+	mg/L		99	80 - 120
Cadmium	0.0500	0.0492		mg/L		98	80 - 120
Calcium	10.0	11.0		mg/L		110	80 - 120
Chromium	0.200	0.202		mg/L		101	80 - 120
Cobalt	0.500	0.508		mg/L		102	80 - 120
Lead	0.100	0.0986		mg/L		99	80 - 120
Lithium	0.100	0.0938		mg/L		94	80 - 120
Molybdenum	1.00	0.937		mg/L		94	80 - 120
Selenium	0.100	0.0994		mg/L		99	80 - 120
Thallium	0.100	0.0993		mg/L		99	80 - 120

Lab Sample ID: LCS 500-685236/2-A
Matrix: Water
Analysis Batch: 685905

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 685236

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

QC Sample Results

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

Job ID: 500-225046-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-685598/12-A
Matrix: Water
Analysis Batch: 685896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 685598

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/17/22 12:30	11/18/22 08:48	1

Lab Sample ID: LCS 500-685598/13-A
Matrix: Water
Analysis Batch: 685896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 685598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00180		mg/L		91	80 - 120

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

Lab Sample ID: MB 500-684716/1
Matrix: Water
Analysis Batch: 684716

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			11/14/22 00:24	1

Lab Sample ID: LCS 500-684716/2
Matrix: Water
Analysis Batch: 684716

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: MB 500-684918/1
Matrix: Water
Analysis Batch: 684918

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			11/15/22 02:52	1

Lab Sample ID: LCS 500-684918/2
Matrix: Water
Analysis Batch: 684918

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	240		mg/L		96	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-686775/16
Matrix: Water
Analysis Batch: 686775

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			11/23/22 10:02	1

QC Sample Results

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

Job ID: 500-225046-1

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

Lab Sample ID: LCS 500-686775/17
Matrix: Water
Analysis Batch: 686775

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	20.1		mg/L		101	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 400-600348/10
Matrix: Water
Analysis Batch: 600348

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/11/22 16:15	1

Lab Sample ID: LCS 400-600348/13
Matrix: Water
Analysis Batch: 600348

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	4.92		mg/L		98	90 - 110

Lab Sample ID: MRL 400-600348/12
Matrix: Water
Analysis Batch: 600348

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.110		mg/L		110	

Lab Sample ID: 500-225046-6 DU
Matrix: Water
Analysis Batch: 600348

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.80		0.796		mg/L		0	4

Lab Sample ID: MB 400-600791/33
Matrix: Water
Analysis Batch: 600791

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/16/22 12:40	1

Lab Sample ID: LCS 400-600791/36
Matrix: Water
Analysis Batch: 600791

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	5.00	5.19		mg/L		104	90 - 110

QC Sample Results

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

Job ID: 500-225046-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MRL 400-600791/35
Matrix: Water
Analysis Batch: 600791

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.100	0.105		mg/L		105	

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-686338/50
Matrix: Water
Analysis Batch: 686338

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			11/21/22 11:10	1

Lab Sample ID: MB 500-686338/87
Matrix: Water
Analysis Batch: 686338

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			11/21/22 11:35	1

Lab Sample ID: LCS 500-686338/51
Matrix: Water
Analysis Batch: 686338

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.7		mg/L		109	88 - 123

Lab Sample ID: LCS 500-686338/88
Matrix: Water
Analysis Batch: 686338

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	21.8		mg/L		109	88 - 123

Lab Sample ID: 500-225046-7 MS
Matrix: Water
Analysis Batch: 686338

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
Sulfate	26		20.0	42.4		mg/L		81	75 - 125

Lab Sample ID: 500-225046-7 MSD
Matrix: Water
Analysis Batch: 686338

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
Sulfate	26		20.0	43.0		mg/L		84	75 - 125	1	20

Eurofins Chicago

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

Chain of Custody Record

eurofins | environment testing

Client Information		Sampler <i>Kaelyn Sperle</i>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-106647-44027 1		
Client Contact: Mitchel Dolan		Phone: <i>262-278-1621</i>		E-Mail: Diana Mockler@et.eurofins.com		State of Origin: <i>IL</i>		Page: Page 1 of 1		
Company KPRG and Associates, Inc				PWSID		Analysis Requested				
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested <i>Standard</i>		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E		 500-225046 COC		Job #: <i>500-225046</i>		
City: Brookfield		TAT Requested (days): <i>Standard</i>						Preservation Codes		
State, Zip WI, 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> 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 M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone: 262-781-0475(Tel)		PO #: 4502102435						Other:		
Email: mitched@kprginc.com		WO #:								
Project Name: Waukegan CCR Event Desc: Quarterly Waukegan CCR		Project #: 50011597								
Site: Illinois		SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note	
				Preservation Code						
<i>1</i>	MW-01	<i>11/7/22</i>	<i>1026</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>		
<i>2</i>	MW-02	<i>11/7/22</i>	<i>1124</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>		
<i>3</i>	MW-03	<i>11/7/22</i>	<i>1220</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>		
<i>4</i>	MW-04	<i>11/7/22</i>	<i>1354</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>		
<i>5</i>	MW-09	<i>11/7/22</i>	<i>1558</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>		
	MW-10				Water					
	MW-11				Water					
<i>6</i>	MW-16	<i>11/7/22</i>	<i>1500</i>	<i>G</i>	Water	<i>NN</i>	<i>XX</i>	<i>XX</i>		
	MW-17				Water					
	MW-18				Water					
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements					
Empty Kit Relinquished by:		Date		Time		Method of Shipment:				
Relinquished by: <i>Kaelyn Sperle</i>		Date/Time: <i>11/7/22/1730</i>		Company: <i>KPRG</i>		Received by: <i>FedEx</i>		Date/Time: <i>11/7/22/1730</i>		Company: <i>FedEX</i>
Relinquished by:		Date/Time:		Company:		Received by: <i>Stephanie Hernandez</i>		Date/Time: <i>11/8/22 1020</i>		Company: <i>EEIA</i>
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks		<i>62.59, 1.4 to 0.9</i>				

Eurofins Chicago

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

Chain of Custody Record



Environmental Testing

Client Information		Sampler: <u>Maelyn Sperie</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s):		COC No. 500-106647-44027 1	
Client Contact: Mitchel Dolan		Phone: <u>262-278-1621</u>		E-Mail: Diana Mockler@et eurofinsus.com		State of Origin: <u>IL</u>		Page: Page 1 of 1	
Company: KPRG and Associates Inc				PWSID:		Analysis Requested			
Address: 14665 West Lisbon Road Suite 1A		Due Date Requested: <u>Standard</u>		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_CI_E, SM4500_S04_E Toxicity		Total Number of containers 500-225046 COC		Job #: <u>500-225046</u>	
City: Brookfield		TAT Requested (days): <u>Standard</u>						Preservation Codes	
State Zip: WI 53005		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)	
Phone: 262-781-0475(Tel)		PO #: 4502102435						Other:	
Email: mitcheld@kprginc.com		WO #:							
Project Name: Waukegan CCR Event Desc. Quarterly Waukegan CCR		Project #: 50011597							
Site: Illinois		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)	Preservation Code:		Special Instructions/Note	
MW-04					Water	D	D	N	N
MW-02					Water				
MW-03					Water				
MW-05					Water				
MW-06					Water				
7	MW-11	11/8/22	1358	G	Water	N	N	X	X
8	MW-14	11/8/22	1253	G	Water	N	N	X	X
MW-07					Water				
9	Duplicate	11/8/22	-	G	Water	N	N	X	X
					Water				
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements			
Empty Kit Relinquished by			Date	Time	Method of Shipment:				
Relinquished by: <u>Maelyn Sperie</u>			Date/Time: <u>11/8/22/1600</u>	Company: <u>KPRG</u>	Received by: <u>FedEx</u>		Date/Time: <u>11/8/22/1600</u>	Company: <u>FedEx</u>	
Relinquished by:			Date/Time:	Company:	Received by: <u>Stephanie Homomony</u>		Date/Time: <u>11/9/22 1030</u>	Company: <u>EELA</u>	
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: <u>12-7/12</u>					

ORIGIN ID:FEPA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

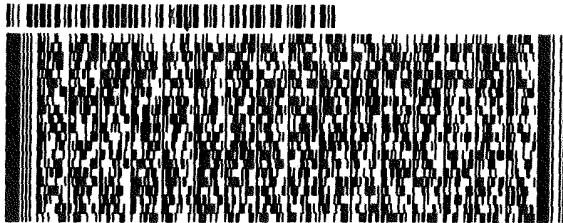
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CAD: 6894085/SSFE2341
DIMS: 24x14x14 IN
BILL THIRD PARTY

Part # 156297-433-444085-188-07/23

TO **ATTN: SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST**

UNIVERSITY PARK IL 60484

(999) 999-9999 REF: INU: PO: DEPT:

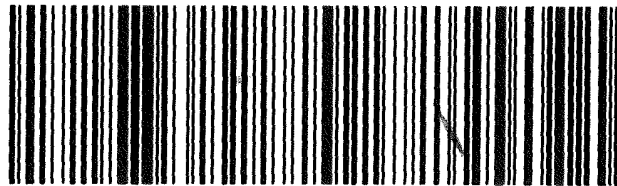


2 of 4
MPS# 3903 4021 9756
0263
Mstr# 3903 4021 9745

**TUE - 08 NOV 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD**

0201

79 JOTA



ORIGIN ID:FEPA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 07NOV22
ACTWGT: 46.55 LB
CAD: 6894085/SSFE2341
DIMS: 24x14x14 IN
BILL THIRD PARTY

Part # 156297-433-444085-188-07/23

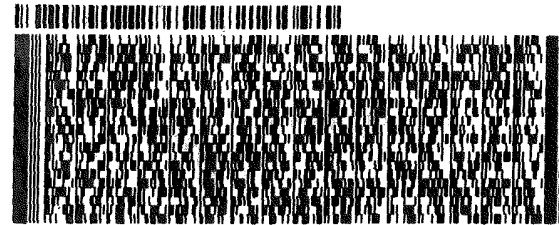
TO **ATTN: SAMPLE RECEIVING
EUROFINS CHICAGO
2417 BOND ST**



UNIVERSITY PARK IL 60484

500 225046 Waybl

(999) 999-9999 REF: INU: PO: DEPT:

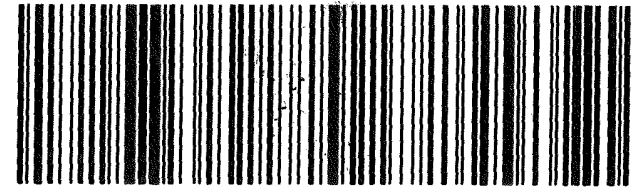


4 of 4
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0263
Mstr# 3903 4021 9745

0201

**TUE - 08 NOV 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD**

79 JOTA



ORIGIN ID: FEPA (262) 278-1621
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 08NOV22
ACTWGT: 48.80 LB
CAD: 6994085/SSFE2341
DIMS: 24x13x14 IN
BILL THIRD PARTY

Part # 156297-453
EXP 07/23

TO **EUROFINS CHICAGO**

2417 BOND ST

UNIVERSITY PARK IL 60484

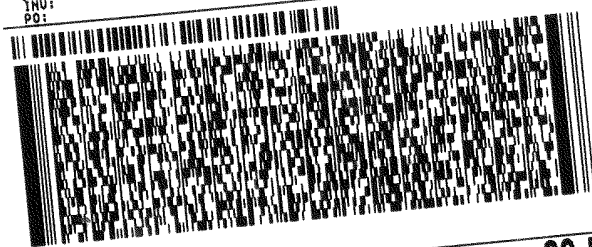


500-225046 Waybr

(999) 999-9999
INU:
PO:

REF:

DEPT:



4 of 4

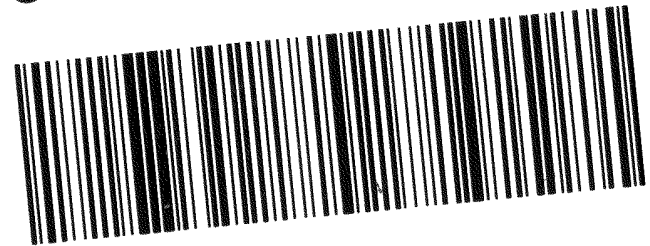
MPS# 3903 8904 4925
0263
Mstr# 3903 8904 4899

0201

79 JOTA

WED - 09 NOV 10:30A
PRIORITY OVERNIGHT

AHS
60484
IL-US ORD



Eurofins Chicago

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

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)
 Client Contact: Mockler, Diana J
 Shipping/Receiving: Diana.Mockler@et.eurofins.com
 Company: TestAmerica Laboratories, Inc. | Accreditations Required (See note): NELAP - Illinois
 Address: 13715 Rider Trail North, IL 60484
 City: Earth City, MO 63045
 State: MO, Zip: 63045
 Phone: 314-298-8566 (Tel) 314-298-8757 (Fax)
 Email: [Redacted]
 Project #: 50011597
 Site: NRG Midwest Generation Waukegan

Due Date Requested: 12/12/2022
TAT Requested (days): [Blank]
PO #: [Blank]
WO #: [Blank]
Project #: 50011597
Site: NRG Midwest Generation Waukegan

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Swastion, B-Tissue, A+Air)	Preservation Code:	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0/PreSep_21 Standard Target List		904.0/PreSep_0 Standard Target List		Total Number of Containers	Special Instructions/Note:
						Field Filtered	MS/MSD	Field Filtered	MS/MSD	Field Filtered	MS/MSD	Field Filtered	MS/MSD		
MW-01 (500-225046-1)	11/7/22	10:26 Central	Water	Water		X	X	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
MW-02 (500-225046-2)	11/7/22	11:24 Central	Water	Water		X	X	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
MW-03 (500-225046-3)	11/7/22	12:20 Central	Water	Water		X	X	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
MW-04 (500-225046-4)	11/7/22	13:54 Central	Water	Water		X	X	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
MW-09 (500-225046-5)	11/7/22	15:58 Central	Water	Water		X	X	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
MW-16 (500-225046-6)	11/7/22	15:00 Central	Water	Water		X	X	X	X	X	X	X	3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	

Analysis Requested: [Blank]

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

Special Instructions/Note:
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
 Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) [Blank]
 Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For [Blank] Months
 Special Instructions/QC Requirements: [Blank]

Empty Kit Relinquished by: [Blank] Date: [Blank] Time: [Blank] Method of Shipment: [Blank]

Relinquished by: [Signature] Date/Time: 11/8/22 14:45 Company: FEDEX
Relinquished by: [Signature] Date/Time: 11/9/22 13:10 Company: EPASIL
Relinquished by: [Signature] Date/Time: [Blank] Company: [Blank]

Custody Seals Intact: [Blank] Custody Seal No.: [Blank]
 Δ Yes Δ No

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/main 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.



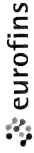
Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mockler, Diana J		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-167211.1		COC No: 500-167211.1			
Client Contact: Diana.Mockler@et.eurofins.com		Phone: Diana.Mockler@et.eurofins.com		E-Mail: Diana.Mockler@et.eurofins.com		State of Origin: Illinois		Page: Page 1 of 1			
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North,		City: Earth City		State, Zip: MO, 63045		Job #: 500-225046-1			
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		PO #:		WO #:		Project #: 50011597		SSOW#:			
Email:		Project Name: Waukegan CCR		Site: NRG Midwest Generation Waukegan		Due Date Requested: 12/1/2022		TAT Requested (days):			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Swab, On-water, RT-Tissue, A-Asp)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc
MW-11 (500-225046-7)	11/8/22	13:58 Central	Water	X	X	X	X	X	X	X	X
MW-14 (500-225046-8)	11/8/22	12:53 Central	Water	X	X	X	X	X	X	X	X
MW-01 (500-225046-9)	11/8/22	Central	Water	X	X	X	X	X	X	X	X
<p>Analysis Requested</p> <p>Preservation Codes:</p> <p>A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)</p> <p>Other:</p>											
<p>Special Instructions/Note:</p> <p>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</p> <p>Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;</p>											
<p>Total Number of containers</p>											
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>											
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) _____</p> <p>Primary Deliverable Rank: 2</p>											
<p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>Ann Scott</i> Date/Time: 11/9/22 1550</p> <p>Relinquished by: FED EX Date/Time: _____</p> <p>Relinquished by: FED EX Date/Time: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Custody Seal No.: _____</p>											
<p>Received: FED EX Date/Time: _____</p> <p>Received by: <i>Autumn R. Johnson</i> Date/Time: NOV 10 2022 0850</p> <p>Received by: EA STIC Date/Time: _____</p> <p>Company: _____</p> <p>Company: _____</p> <p>Company: _____</p> <p>Method of Shipment: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>											



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		500-167135.1		500-167135.1	
Company: Eurofins Environment Testing Southeast,		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin: Illinois		Page: Page 1 of 1		Job #: 500-225046-1	
Address: 3355 McLeMORE Drive,		Due Date Requested: 11/30/2022		Accreditations Required (See note): NELAP - Illinois		Preservation Codes:			
City: Pensacola		TAT Requested (days):		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		Total Number of Containers	
State, Zip: FL, 32514		PO #:		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			
Phone: 850-474-1001(Tel) 850-478-2671(Fax)		WO #:		4500 F.C					
Email:		Project #: 50011597		Matrix (W=Water, S=solid, O=swab/soil, BT=Tissue, A=Air)					
Project Name: Waukegan CCR		SSOW#:		Sample Type (C=Comp, G=grab)		Preservation Code:		Special Instructions/Note:	
Site: NRG Midwest Generation Waukegan				Sample Time		Sample Date			
MW-01 (500-225046-1)	Central	10:26	11/7/22	Water	1				
MW-02 (500-225046-2)	Central	11:24	11/7/22	Water	1				
MW-03 (500-225046-3)	Central	12:20	11/7/22	Water	1				
MW-04 (500-225046-4)	Central	13:54	11/7/22	Water	1				
MW-09 (500-225046-5)	Central	15:58	11/7/22	Water	1				
MW-16 (500-225046-6)	Central	15:00	11/7/22	Water	1				

Possible Hazard Identification

Unconfirmed Return To Client Disposal By Lab Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *[Signature]* Date/Time: 11/8/22 1445 Company: EPA Company

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

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

Custody Seals Intact: _____ Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: 0-20C (PHO)

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.



Do not lift using this tag.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Part # 159439-434
P. 0023

ORIGIN ID: JOTA (708) 534-5200
SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

SHIP DATE: 08NOV22
ACTWGT: 20.00 LB MAN
CAD: 033264/CAFE3616

UNIVERSITY PARK, IL 60484
UNITED STATES US

BILL SENDER

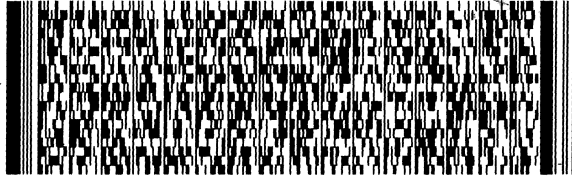
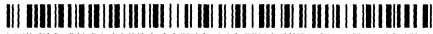
TO **SAMPLE RECEIVING**
EUROFINS - PENSACOLA
3355 MCLEMORE DR.

O-2C
IR 10
MP

PENSACOLA FL 32514

(850) 474-1001
REF: 225035/046

577C4/07F5/4324



FedEx
Express



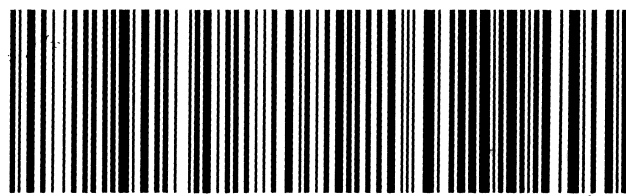
JJ22022032801uv

TRK# 1893 4460 9042
0201

WED - 09 NOV 10:30A
PRIORITY OVERNIGHT

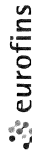
XH PNSA

32514
FL-US **BFM**



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Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Carrier Tracking No(s): 500-167200.1
Client Contact: Shipping/Receiving		E-Mail: Diana.Mockler@et.eurofinsus.com		Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): NELAP - Illinois		Job #: 500-225046-1
Address: 3355 McLemore Drive,	Due Date Requested: 11/30/2022	Analysis Requested		
City: Pensacola	TAT Requested (days):			
State, Zip: FL, 32514	PO #:			
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	WO #:			
Email:	Project #: 50011597			
Client Name: Waukegan CCR	SSOW#:			
Site: NRG Midwest Generation Waukegan				

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, BI=tissue, A=air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	Special Instructions/Note:
					X		X			
MW-11 (500-225046-7)	11/8/22	13:58 Central	Water	Water	X		X		1	
MW-14 (500-225046-8)	11/8/22	12:53 Central	Water	Water	X		X		1	
MW-01 (500-225046-9)	11/8/22	Central	Water	Water	X		X		1	

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

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

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225046-1

Login Number: 225046

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	5.9,0.9,1.2
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: 500-225046-1

Login Number: 225046

List Number: 2

Creator: Whitley, Adrian

List Source: Eurofins Pensacola

List Creation: 11/09/22 02:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2°C IR10
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-225046-1

Login Number: 225046

List Number: 5

Creator: Whitley, Adrian

List Source: Eurofins Pensacola

List Creation: 11/11/22 02:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR8
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Lab Chronicle

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

Job ID: 500-225046-1

Client Sample ID: MW-01

Date Collected: 11/07/22 10:26

Date Received: 11/08/22 10:20

Lab Sample ID: 500-225046-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		5	685905	FXG	EET CHI	11/17/22 15:47
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 21:55
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 08:57
Total/NA	Analysis	SM 2540C		1	684716	CLB	EET CHI	11/14/22 01:10
Total/NA	Analysis	SM 4500 CI- E		5	686775	LP	EET CHI	11/23/22 10:05
Total/NA	Analysis	SM 4500 F C		1	600348	JP	EET PEN	11/11/22 16:15
Total/NA	Analysis	SM 4500 SO4 E		10	686338	LP	EET CHI	11/21/22 11:17

Client Sample ID: MW-02

Date Collected: 11/07/22 11:24

Date Received: 11/08/22 10:20

Lab Sample ID: 500-225046-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		10	685905	FXG	EET CHI	11/17/22 15:51
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 21:59
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 08:59
Total/NA	Analysis	SM 2540C		1	684716	CLB	EET CHI	11/14/22 01:13
Total/NA	Analysis	SM 4500 CI- E		5	686775	LP	EET CHI	11/23/22 10:06
Total/NA	Analysis	SM 4500 F C		1	600348	JP	EET PEN	11/11/22 16:15
Total/NA	Analysis	SM 4500 SO4 E		10	686338	LP	EET CHI	11/21/22 11:18

Client Sample ID: MW-03

Date Collected: 11/07/22 12:20

Date Received: 11/08/22 10:20

Lab Sample ID: 500-225046-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		5	685905	FXG	EET CHI	11/17/22 15:54
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 22:02
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 09:01
Total/NA	Analysis	SM 2540C		1	684716	CLB	EET CHI	11/14/22 01:15
Total/NA	Analysis	SM 4500 CI- E		5	686775	LP	EET CHI	11/23/22 10:06
Total/NA	Analysis	SM 4500 F C		1	600348	JP	EET PEN	11/11/22 16:15
Total/NA	Analysis	SM 4500 SO4 E		10	686338	LP	EET CHI	11/21/22 11:18

Lab Chronicle

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

Job ID: 500-225046-1

Client Sample ID: MW-04
Date Collected: 11/07/22 13:54
Date Received: 11/08/22 10:20

Lab Sample ID: 500-225046-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		5	685905	FXG	EET CHI	11/17/22 15:58
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 22:05
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 09:03
Total/NA	Analysis	SM 2540C		1	684716	CLB	EET CHI	11/14/22 01:18
Total/NA	Analysis	SM 4500 CI- E		5	686775	LP	EET CHI	11/23/22 10:06
Total/NA	Analysis	SM 4500 F C		1	600348	JP	EET PEN	11/11/22 16:15
Total/NA	Analysis	SM 4500 SO4 E		10	686338	LP	EET CHI	11/21/22 11:18

Client Sample ID: MW-09
Date Collected: 11/07/22 15:58
Date Received: 11/08/22 10:20

Lab Sample ID: 500-225046-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		20	685905	FXG	EET CHI	11/17/22 16:08
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 22:16
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 09:06
Total/NA	Analysis	SM 2540C		1	684716	CLB	EET CHI	11/14/22 01:20
Total/NA	Analysis	SM 4500 CI- E		10	686775	LP	EET CHI	11/23/22 10:06
Total/NA	Analysis	SM 4500 F C		1	600348	JP	EET PEN	11/11/22 16:15
Total/NA	Analysis	SM 4500 SO4 E		10	686338	LP	EET CHI	11/21/22 11:19

Client Sample ID: MW-16
Date Collected: 11/07/22 15:00
Date Received: 11/08/22 10:20

Lab Sample ID: 500-225046-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		10	685905	FXG	EET CHI	11/17/22 16:12
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 22:19
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 09:08
Total/NA	Analysis	SM 2540C		1	684716	CLB	EET CHI	11/14/22 01:23
Total/NA	Analysis	SM 4500 CI- E		5	686775	LP	EET CHI	11/23/22 10:07
Total/NA	Analysis	SM 4500 F C		1	600348	JP	EET PEN	11/11/22 16:15
Total/NA	Analysis	SM 4500 SO4 E		10	686338	LP	EET CHI	11/21/22 11:19

Lab Chronicle

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

Job ID: 500-225046-1

Client Sample ID: MW-11
Date Collected: 11/08/22 13:58
Date Received: 11/09/22 10:30

Lab Sample ID: 500-225046-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		5	685905	FXG	EET CHI	11/17/22 16:15
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 22:22
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 09:10
Total/NA	Analysis	SM 2540C		1	684918	CLB	EET CHI	11/15/22 03:35
Total/NA	Analysis	SM 4500 CI- E		10	686775	LP	EET CHI	11/23/22 10:07
Total/NA	Analysis	SM 4500 F C		1	600791	JP	EET PEN	11/16/22 12:15
Total/NA	Analysis	SM 4500 SO4 E		5	686338	LP	EET CHI	11/21/22 11:58

Client Sample ID: MW-14
Date Collected: 11/08/22 12:53
Date Received: 11/09/22 10:30

Lab Sample ID: 500-225046-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685905	FXG	EET CHI	11/17/22 16:19
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 22:26
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 09:12
Total/NA	Analysis	SM 2540C		1	684918	CLB	EET CHI	11/15/22 03:38
Total/NA	Analysis	SM 4500 CI- E		5	686775	LP	EET CHI	11/23/22 10:07
Total/NA	Analysis	SM 4500 F C		1	600791	JP	EET PEN	11/16/22 12:20
Total/NA	Analysis	SM 4500 SO4 E		2	686338	LP	EET CHI	11/21/22 11:37

Client Sample ID: Duplicate
Date Collected: 11/08/22 00:00
Date Received: 11/09/22 10:30

Lab Sample ID: 500-225046-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		5	685905	FXG	EET CHI	11/17/22 16:22
Total Recoverable	Prep	3005A			685236	BDE	EET CHI	11/16/22 08:32 - 11/16/22 09:02 ¹
Total Recoverable	Analysis	6020A		1	685597	FXG	EET CHI	11/16/22 22:29
Total/NA	Prep	7470A			685598	MJG	EET CHI	11/17/22 12:30 - 11/17/22 14:30 ¹
Total/NA	Analysis	7470A		1	685896	MJG	EET CHI	11/18/22 09:14
Total/NA	Analysis	SM 2540C		1	684918	CLB	EET CHI	11/15/22 03:41
Total/NA	Analysis	SM 4500 CI- E		5	686775	LP	EET CHI	11/23/22 10:08
Total/NA	Analysis	SM 4500 F C		1	600791	JP	EET PEN	11/16/22 12:23
Total/NA	Analysis	SM 4500 SO4 E		2	686338	LP	EET CHI	11/21/22 12:14

¹ Completion dates and times are reported or not reported per method requirements or individual lab discretion.

Lab Chronicle

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

Job ID: 500-225046-1

Laboratory References:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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Accreditation/Certification Summary

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

Job ID: 500-225046-1

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

Laboratory: Eurofins Pensacola

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

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-23
ANAB	ISO/IEC 17025	L2471	02-23-23
Arkansas DEQ	State	88-0689	09-01-23
California	State	2510	06-30-23
Florida	NELAP	E81010	06-30-23
Georgia	State	E81010(FL)	06-30-23
Illinois	NELAP	200041	10-09-23
Kansas	NELAP	E-10253	10-31-23
Kentucky (UST)	State	53	06-30-23
Kentucky (WW)	State	KY98030	12-31-22
Louisiana (All)	NELAP	30976	06-30-23
Louisiana (DW)	State	LA017	12-31-22
Maryland	State	233	09-30-23
Michigan	State	9912	06-30-23
North Carolina (WW/SW)	State	314	12-31-22
Oklahoma	NELAP	9810	08-31-23
Pennsylvania	NELAP	68-00467	01-31-23
South Carolina	State	96026	06-30-23
Tennessee	State	TN02907	06-30-23
Texas	NELAP	T104704286	09-30-23
US Fish & Wildlife	US Federal Programs	A22340	06-30-23
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-23
West Virginia DEP	State	136	03-31-23



ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/13/2023 7:47:13 AM

JOB DESCRIPTION

Waukegan CCR Resample Fluoride MW-09

JOB NUMBER

500-227248-1

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



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Authorized for release by
Diana Mockler, Project Manager I
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(219)252-7570



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Case Narrative

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

Job ID: 500-227248-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative
500-227248-1

Comments

No additional comments.

Receipt

The sample was received on 12/22/2022 10:25 AM. 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 2.8° C.

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: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	EET CHI

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-227248-1	MW-09	Water	12/21/22 10:17	12/22/22 10:25

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Client Sample Results

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

Client Sample ID: MW-09
Date Collected: 12/21/22 10:17
Date Received: 12/22/22 10:25

Lab Sample ID: 500-227248-1
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride (MCAWW 300.0)	0.40		0.20		mg/L			01/07/23 16:56	1

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Definitions/Glossary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

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: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

General Chemistry

Analysis Batch: 693172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-227248-1	MW-09	Total/NA	Water	300.0	
MB 500-693172/3	Method Blank	Total/NA	Water	300.0	
LCS 500-693172/4	Lab Control Sample	Total/NA	Water	300.0	

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QC Sample Results

Client: KPRG and Associates, Inc.
 Project/Site: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-693172/3
Matrix: Water
Analysis Batch: 693172

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			01/07/23 15:27	1

Lab Sample ID: LCS 500-693172/4
Matrix: Water
Analysis Batch: 693172

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	0.987		mg/L		99	90 - 110





500-227248 Waybi

302+

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: 21DEC22
ACTWGT: 25.75 LB
CAD: 0268688/CAFE3616

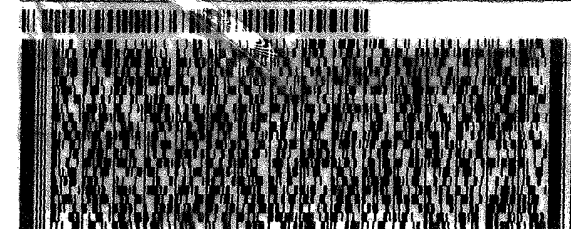
BILL RECIPIENT

1 SAMPLE RECEIPT
EUROFINS
2417 BOND ST.

57775/REF/4590

UNIVERSITY PARK IL 60484

(262) 202-5955 REF: THU: DEPT: PO:



2 of 2
MPS# 0263 6155 6317 6954
Mstr# 6155 6317 6943

THU - 22 DEC 10:30A
PRIORITY OVERNIGHT

0201

79 JOTA

60484
IL-US ORD



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-227248-1

Login Number: 227248

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	2.8
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: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

Client Sample ID: MW-09

Lab Sample ID: 500-227248-1

Date Collected: 12/21/22 10:17

Matrix: Water

Date Received: 12/22/22 10:25

<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/NA	Analysis	300.0		1	693172	MM	EET CHI	01/07/23 16:56

Laboratory References:

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

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Accreditation/Certification Summary

Client: KPRG and Associates, Inc.
Project/Site: Waukegan CCR Resample Fluoride MW-09

Job ID: 500-227248-1

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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