

DATA SUMMARY POSTING

Station: Midwest Generation Waukegan Generating Station

Regulated Unit(s): East Pond (IEPA ID No. W0971900021-01)
West Pond (IEPA ID No. W0971900021-02)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 1st quarter 2025 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

No background statistics or proposed Groundwater Protection Standards are included on these tables. The background statistics and Proposed Groundwater Protection Standards were submitted to Illinois Environmental Protection Agency (EPA) as part of the Application for Initial Operating Permit submitted on October 31, 2021. Upon Illinois EPA approval of the Operating Permit and Proposed Groundwater Protection Standards, the approved comparison values will be included on the tables for subsequent data comparisons/evaluations.

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Turbidity (NTU)
MW-09	3/3/2021	4.70
	3/30/2021	10.15
	5/6/2021	3.44
	5/27/2021	12.41
	6/18/2021	27.7
	7/8/2021	28.77
	8/19/2021	77.36
	9/29/2021	18.41
	11/4/2021	12.66
	2/10/2022	34.39
	5/24/2022	170.87
	8/23/2022	34.9
	11/7/2022	195.02
	2/14/2023	20.46
	5/9/2023	9.34
	8/8/2023	18.85
	11/28/2023	27.24
2/6/2024	147.43	
5/21/2024	105.62	
8/13/2024	10.56	
11/12/2024	15.83	
2/4/2025	7.13	
MW-11	3/2/2021	2.20
	3/30/2021	6.08
	5/6/2021	2.34
	5/27/2021	2.69
	6/18/2021	13.7
	7/8/2021	4.71
	8/19/2021	139.34
	9/29/2021	402.9
	11/4/2021	152.7
	2/10/2022	13.8
	5/24/2022	2.18
	8/23/2022	3.17
	11/8/2022	7771.57*
	2/14/2023	5.12
	5/9/2023	16.30
	8/8/2023	11.59
	11/28/2023	7.01
2/6/2024	5.32	
5/21/2024	6.08	
8/13/2024	6.04	
11/12/2024	77.59	
2/4/2025	847.22	
MW-14	3/2/2021	2035
	3/30/2021	151.5
	5/6/2021	901.4
	5/27/2021	2385.61
	6/18/2021	69.25
	7/8/2021	73.18
	8/19/2021	77.04
	9/29/2021	8.42
	11/4/2021	7.42
	2/10/2022	81.72
	5/24/2022	43.52
	8/23/2022	24.76
	11/8/2022	311.78
	2/14/2023	660.17
	5/9/2023	16.57
	8/8/2023	10.85
	11/28/2023	220.56
2/6/2024	80.17	
5/21/2024	38.51	
8/13/2024	59.22	
11/12/2024	54.91	
2/4/2025	107.49	

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Turbidity (NTU)
MW-01	3/1/2021	0.59
	3/30/2021	5.72
	5/5/2021	1.42
	5/27/2021	2.02
	6/18/2021	2.33
	7/8/2021	3.60
	8/18/2021	2.33
	9/29/2021	3.03
	11/3/2021	3.05
	2/8/2022	4.60
	5/23/2022	2.92
	8/22/2022	1.31
	11/7/2022	41.21
	2/13/2023	2.90
	5/8/2023	3.21
	8/7/2023	3.15
	11/27/2023	3.74
2/5/2024	5.07	
5/20/2024	4.72	
8/12/2024	6.80	
11/11/2024	2.25	
2/3/2025	4.31	
MW-02	3/1/2021	0.69
	3/30/2021	5.66
	5/5/2021	1.65
	5/27/2021	2.95
	6/18/2021	2.71
	7/8/2021	4.20
	8/18/2021	9.03
	9/29/2021	3.42
	11/3/2021	4.05
	2/8/2022	13.4
	5/23/2022	30.54
	8/22/2022	25.43
	11/7/2022	23.82
	2/13/2023	5.25
	5/8/2023	14.43
	8/7/2023	2.32
	11/28/2023	4.56
2/5/2024	5.15	
5/20/2024	8.91	
8/12/2024	6.11	
11/11/2024	17.58	
2/3/2025	3.41	
MW-03	3/1/2021	0.75
	3/30/2021	5.73
	5/5/2021	1.71
	5/27/2021	2.02
	6/18/2021	2.56
	7/8/2021	3.74
	8/18/2021	2.60
	9/29/2021	2.82
	11/3/2021	3.26
	2/8/2022	8.27
	5/23/2022	4.11
	8/22/2022	1.91
	11/7/2022	2.27
	2/13/2023	2.86
	5/8/2023	3.61
	8/7/2023	2.68
	11/27/2023	3.57
2/5/2024	5.03	
5/20/2024	6.09	
8/12/2024	6.37	
11/11/2024	3.05	
2/3/2025	2.38	

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Turbidity (NTU)
MW-04	3/1/2021	1.30
	3/30/2021	6.21
	5/5/2021	1.77
	5/27/2021	2.73
	6/18/2021	3.69
	7/8/2021	5.36
	8/18/2021	40.61
	9/29/2021	3.48
	11/3/2021	4.26
	2/8/2022	13.32
	5/23/2022	28.94
	8/22/2022	2.57
	11/7/2022	41.15
	2/13/2023	3.76
	5/9/2023	15.03
	8/8/2023	2.54
	11/27/2023	4.22
	2/5/2024	3.73
5/21/2024	5.67	
8/12/2024	6.33	
11/11/2024	3.79	
2/5/2025	6.70	
MW-16	3/1/2021	0.77
	3/30/2021	6.07
	5/6/2021	1.63
	5/27/2021	2.00
	6/18/2021	2.59
	7/8/2021	3.58
	8/18/2021	3.22
	9/29/2021	6.05
	11/4/2021	4.00
	2/8/2022	21.6
	5/23/2022	11.75
	8/22/2022	3.54
	11/7/2022	42.55
	2/13/2023	32.31
	5/9/2023	2.95
	8/8/2023	2.81
	11/28/2023	45.54
	2/6/2024	11.95
5/21/2024	9.87	
8/13/2024	7.08	
11/12/2024	23.93	
2/3/2025	7.34	

* - MW-11 November 2022 turbidity is a field recording error.

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

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Generated 2/13/2025 2:45:15 PM

JOB DESCRIPTION

Waukegan CCR

JOB NUMBER

500-263479-1

Eurofins Chicago

Job Notes

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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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Case Narrative

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

Job ID: 500-263479-1

Job ID: 500-263479-1

Eurofins Chicago

Job Narrative 500-263479-1

Receipt

The samples were received on 2/4/2025 9:20 AM, 2/5/2025 9:10 AM and 2/6/2025 9:05 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 -0.1°C, 2.0°C and 4.0°C.

Metals

Method 6020B - Total Recoverable: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-11 (500-263479-7). Elevated reporting limits (RLs) are provided.

Method 6020B - Total Recoverable: The linear range check (LRC) recovered outside of control limits for Lithium. Sample results are within the high calibration standard and have been qualified and reported. (LRC 500-805543/14)

Method 6020B - Total Recoverable: The initial low level calibration verification (ICVL) result for batch 500-805543 was above the upper control limit. The affected analyte is: Beryllium. Sample results were non-detects, and have been reported as qualified data.

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

General Chemistry

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

Eurofins Chicago

Method Summary

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

Job ID: 500-263479-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-263479-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-263479-1	MW-01	Water	02/03/25 11:50	02/04/25 09:20
500-263479-2	MW-02	Water	02/03/25 12:53	02/04/25 09:20
500-263479-3	MW-03	Water	02/03/25 14:28	02/04/25 09:20
500-263479-4	MW-16	Water	02/03/25 15:56	02/04/25 09:20
500-263479-5	Duplicate	Water	02/03/25 00:00	02/04/25 09:20
500-263479-6	MW-09	Water	02/04/25 13:18	02/05/25 09:10
500-263479-7	MW-11	Water	02/04/25 10:35	02/05/25 09:10
500-263479-8	MW-14	Water	02/04/25 11:54	02/05/25 09:10
500-263479-9	MW-04	Water	02/05/25 12:16	02/06/25 09:05

- 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: 500-263479-1

Client Sample ID: MW-01
Date Collected: 02/03/25 11:50
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/05/25 08:21	02/07/25 15:18	1
Arsenic	0.019		0.0010		mg/L		02/05/25 08:21	02/07/25 15:18	1
Barium	0.037		0.0025		mg/L		02/05/25 08:21	02/07/25 15:18	1
Beryllium	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:18	1
Boron	1.8		0.050		mg/L		02/05/25 08:21	02/10/25 13:50	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:18	1
Calcium	66		0.20		mg/L		02/05/25 08:21	02/07/25 15:18	1
Chromium	<0.0050		0.0050		mg/L		02/05/25 08:21	02/07/25 15:18	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:18	1
Lead	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:18	1
Lithium	<0.010		0.010		mg/L		02/05/25 08:21	02/07/25 15:18	1
Molybdenum	0.025		0.0050		mg/L		02/05/25 08:21	02/07/25 15:18	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 08:21	02/07/25 15:18	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 08:21	02/07/25 15:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	420		10		mg/L			02/05/25 03:07	1
Chloride (SM 4500 Cl- E)	75		4.0		mg/L			02/09/25 12:00	2
Fluoride (SM 4500 F C)	0.24		0.10		mg/L			02/05/25 11:53	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			02/11/25 14:34	5

Client Sample Results

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

Job ID: 500-263479-1

Client Sample ID: MW-02
Date Collected: 02/03/25 12:53
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/05/25 08:21	02/07/25 15:31	1
Arsenic	0.010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:31	1
Barium	0.016		0.0025		mg/L		02/05/25 08:21	02/07/25 15:31	1
Beryllium	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:31	1
Boron	3.0		0.050		mg/L		02/05/25 08:21	02/10/25 14:08	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:31	1
Calcium	45		0.20		mg/L		02/05/25 08:21	02/07/25 15:31	1
Chromium	<0.0050		0.0050		mg/L		02/05/25 08:21	02/07/25 15:31	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:31	1
Lead	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:31	1
Lithium	<0.010		0.010		mg/L		02/05/25 08:21	02/07/25 15:31	1
Molybdenum	0.023		0.0050		mg/L		02/05/25 08:21	02/07/25 15:31	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 08:21	02/07/25 15:31	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 08:21	02/07/25 15:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	450		10		mg/L			02/05/25 03:10	1
Chloride (SM 4500 Cl- E)	75		4.0		mg/L			02/09/25 12:00	2
Fluoride (SM 4500 F C)	0.44		0.10		mg/L			02/05/25 11:57	1
Sulfate (SM 4500 SO4 E)	190		25		mg/L			02/05/25 11:30	5

Client Sample Results

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

Job ID: 500-263479-1

Client Sample ID: MW-03
Date Collected: 02/03/25 14:28
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/05/25 08:21	02/07/25 15:33	1
Arsenic	0.033		0.0010		mg/L		02/05/25 08:21	02/07/25 15:33	1
Barium	0.0038		0.0025		mg/L		02/05/25 08:21	02/07/25 15:33	1
Beryllium	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:33	1
Boron	3.2		0.050		mg/L		02/05/25 08:21	02/10/25 14:12	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:33	1
Calcium	34		0.20		mg/L		02/05/25 08:21	02/07/25 15:33	1
Chromium	<0.0050		0.0050		mg/L		02/05/25 08:21	02/07/25 15:33	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:33	1
Lead	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:33	1
Lithium	<0.010		0.010		mg/L		02/05/25 08:21	02/07/25 15:33	1
Molybdenum	0.035		0.0050		mg/L		02/05/25 08:21	02/07/25 15:33	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 08:21	02/07/25 15:33	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 08:21	02/07/25 15:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	450		10		mg/L			02/05/25 03:12	1
Chloride (SM 4500 Cl- E)	69		4.0		mg/L			02/09/25 10:47	2
Fluoride (SM 4500 F C)	0.40		0.10		mg/L			02/05/25 12:02	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			02/05/25 11:30	5

Client Sample Results

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

Job ID: 500-263479-1

Client Sample ID: MW-16
Date Collected: 02/03/25 15:56
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/05/25 08:21	02/07/25 15:36	1
Arsenic	0.0023		0.0010		mg/L		02/05/25 08:21	02/07/25 15:36	1
Barium	0.051		0.0025		mg/L		02/05/25 08:21	02/07/25 15:36	1
Beryllium	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:36	1
Boron	3.9		0.050		mg/L		02/05/25 08:21	02/10/25 14:16	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:36	1
Calcium	190		0.20		mg/L		02/05/25 08:21	02/07/25 15:36	1
Chromium	<0.0050		0.0050		mg/L		02/05/25 08:21	02/07/25 15:36	1
Cobalt	0.0020		0.0010		mg/L		02/05/25 08:21	02/07/25 15:36	1
Lead	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:36	1
Lithium	0.018		0.010		mg/L		02/05/25 08:21	02/07/25 15:36	1
Molybdenum	0.015		0.0050		mg/L		02/05/25 08:21	02/07/25 15:36	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 08:21	02/07/25 15:36	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 08:21	02/07/25 15:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			02/05/25 03:15	1
Chloride (SM 4500 Cl- E)	55		4.0		mg/L			02/09/25 10:47	2
Fluoride (SM 4500 F C)	0.43		0.10		mg/L			02/05/25 12:07	1
Sulfate (SM 4500 SO4 E)	430		50		mg/L			02/05/25 11:28	10

Client Sample Results

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

Job ID: 500-263479-1

Client Sample ID: Duplicate

Lab Sample ID: 500-263479-5

Date Collected: 02/03/25 00:00

Matrix: Water

Date Received: 02/04/25 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/05/25 08:21	02/07/25 15:44	1
Arsenic	0.033		0.0010		mg/L		02/05/25 08:21	02/07/25 15:44	1
Barium	0.0039		0.0025		mg/L		02/05/25 08:21	02/07/25 15:44	1
Beryllium	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:44	1
Boron	3.1		0.050		mg/L		02/05/25 08:21	02/10/25 14:30	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:44	1
Calcium	36		0.20		mg/L		02/05/25 08:21	02/07/25 15:44	1
Chromium	<0.0050		0.0050		mg/L		02/05/25 08:21	02/07/25 15:44	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:44	1
Lead	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:44	1
Lithium	<0.010		0.010		mg/L		02/05/25 08:21	02/07/25 15:44	1
Molybdenum	0.035		0.0050		mg/L		02/05/25 08:21	02/07/25 15:44	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 08:21	02/07/25 15:44	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 08:21	02/07/25 15:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	430		10		mg/L			02/05/25 03:18	1
Chloride (SM 4500 Cl- E)	68		4.0		mg/L			02/09/25 10:47	2
Fluoride (SM 4500 F C)	0.45		0.10		mg/L			02/06/25 13:12	1
Sulfate (SM 4500 SO4 E)	170		25		mg/L			02/11/25 14:33	5

Client Sample Results

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

Job ID: 500-263479-1

Client Sample ID: MW-09

Lab Sample ID: 500-263479-6

Date Collected: 02/04/25 13:18

Matrix: Water

Date Received: 02/05/25 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/05/25 14:45	02/06/25 11:44	1
Arsenic	0.0077		0.0010		mg/L		02/05/25 14:45	02/06/25 11:44	1
Barium	0.070		0.0025		mg/L		02/05/25 14:45	02/06/25 11:44	1
Beryllium	<0.0010	^1+	0.0010		mg/L		02/05/25 14:45	02/06/25 11:44	1
Boron	2.9		0.050		mg/L		02/05/25 14:45	02/06/25 11:44	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 14:45	02/06/25 11:44	1
Calcium	130		0.20		mg/L		02/05/25 14:45	02/06/25 11:44	1
Chromium	<0.0050		0.0050		mg/L		02/05/25 14:45	02/06/25 11:44	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 14:45	02/06/25 11:44	1
Lead	<0.00050		0.00050		mg/L		02/05/25 14:45	02/06/25 11:44	1
Lithium	0.051	^5-	0.010		mg/L		02/05/25 14:45	02/06/25 11:44	1
Molybdenum	0.053		0.0050		mg/L		02/05/25 14:45	02/06/25 11:44	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 14:45	02/06/25 11:44	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 14:45	02/06/25 11:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	890		10		mg/L			02/07/25 01:33	1
Chloride (SM 4500 Cl- E)	160		10		mg/L			02/09/25 10:46	5
Fluoride (SM 4500 F C)	0.27		0.10		mg/L			02/06/25 13:17	1
Sulfate (SM 4500 SO4 E)	180		25		mg/L			02/11/25 14:35	5

Client Sample Results

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

Job ID: 500-263479-1

Client Sample ID: MW-11
Date Collected: 02/04/25 10:35
Date Received: 02/05/25 09:10

Lab Sample ID: 500-263479-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/05/25 14:45	02/06/25 11:47	1
Arsenic	8.3		0.0050		mg/L		02/05/25 14:45	02/06/25 12:45	5
Barium	0.28		0.0025		mg/L		02/05/25 14:45	02/06/25 11:47	1
Beryllium	<0.0010	^1+	0.0010		mg/L		02/05/25 14:45	02/06/25 11:47	1
Boron	1.9		0.050		mg/L		02/05/25 14:45	02/06/25 11:47	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 14:45	02/06/25 11:47	1
Calcium	140		0.20		mg/L		02/05/25 14:45	02/06/25 11:47	1
Chromium	0.017		0.0050		mg/L		02/05/25 14:45	02/06/25 11:47	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 14:45	02/06/25 11:47	1
Lead	<0.00050		0.00050		mg/L		02/05/25 14:45	02/06/25 11:47	1
Lithium	0.029	^5-	0.010		mg/L		02/05/25 14:45	02/06/25 11:47	1
Molybdenum	0.012		0.0050		mg/L		02/05/25 14:45	02/06/25 11:47	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 14:45	02/06/25 11:47	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 14:45	02/06/25 11:47	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	670		10		mg/L			02/07/25 01:41	1
Chloride (SM 4500 Cl- E)	130		10		mg/L			02/09/25 10:45	5
Fluoride (SM 4500 F C)	0.15		0.10		mg/L			02/06/25 13:22	1
Sulfate (SM 4500 SO4 E)	55		10		mg/L			02/11/25 14:35	2

Client Sample Results

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

Job ID: 500-263479-1

Client Sample ID: MW-14
Date Collected: 02/04/25 11:54
Date Received: 02/05/25 09:10

Lab Sample ID: 500-263479-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/05/25 14:45	02/06/25 11:49	1
Arsenic	2.5		0.0010		mg/L		02/05/25 14:45	02/06/25 11:49	1
Barium	0.052		0.0025		mg/L		02/05/25 14:45	02/06/25 11:49	1
Beryllium	<0.0010	^1+	0.0010		mg/L		02/05/25 14:45	02/06/25 11:49	1
Boron	0.47		0.050		mg/L		02/05/25 14:45	02/06/25 11:49	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 14:45	02/06/25 11:49	1
Calcium	130		0.20		mg/L		02/05/25 14:45	02/06/25 11:49	1
Chromium	0.61		0.0050		mg/L		02/05/25 14:45	02/06/25 11:49	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 14:45	02/06/25 11:49	1
Lead	<0.00050		0.00050		mg/L		02/05/25 14:45	02/06/25 11:49	1
Lithium	0.013	^5-	0.010		mg/L		02/05/25 14:45	02/06/25 11:49	1
Molybdenum	<0.0050		0.0050		mg/L		02/05/25 14:45	02/06/25 11:49	1
Selenium	0.0027		0.0025		mg/L		02/05/25 14:45	02/06/25 11:49	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 14:45	02/06/25 11:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	550		10		mg/L			02/07/25 01:46	1
Chloride (SM 4500 Cl- E)	47		2.0		mg/L			02/09/25 10:22	1
Fluoride (SM 4500 F C)	0.20		0.10		mg/L			02/06/25 13:26	1
Sulfate (SM 4500 SO4 E)	15		5.0		mg/L			02/11/25 14:11	1

Client Sample Results

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

Job ID: 500-263479-1

Client Sample ID: MW-04
Date Collected: 02/05/25 12:16
Date Received: 02/06/25 09:05

Lab Sample ID: 500-263479-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/06/25 15:15	02/07/25 15:00	1
Arsenic	0.012		0.0010		mg/L		02/06/25 15:15	02/07/25 15:00	1
Barium	0.025		0.0025		mg/L		02/06/25 15:15	02/07/25 15:00	1
Beryllium	<0.0010		0.0010		mg/L		02/06/25 15:15	02/07/25 15:00	1
Boron	2.6		0.050		mg/L		02/06/25 15:15	02/10/25 18:13	1
Cadmium	<0.00050		0.00050		mg/L		02/06/25 15:15	02/07/25 15:00	1
Calcium	46		0.20		mg/L		02/06/25 15:15	02/07/25 15:00	1
Chromium	<0.0050		0.0050		mg/L		02/06/25 15:15	02/07/25 15:00	1
Cobalt	<0.0010		0.0010		mg/L		02/06/25 15:15	02/07/25 15:00	1
Lead	<0.00050		0.00050		mg/L		02/06/25 15:15	02/07/25 15:00	1
Lithium	<0.010		0.010		mg/L		02/06/25 15:15	02/07/25 15:00	1
Molybdenum	0.077		0.0050		mg/L		02/06/25 15:15	02/07/25 15:00	1
Selenium	<0.0025		0.0025		mg/L		02/06/25 15:15	02/07/25 15:00	1
Thallium	<0.0020		0.0020		mg/L		02/06/25 15:15	02/07/25 15:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	460		10		mg/L			02/10/25 22:46	1
Chloride (SM 4500 Cl- E)	88		10		mg/L			02/09/25 10:48	5
Fluoride (SM 4500 F C)	0.30		0.10		mg/L			02/07/25 11:45	1
Sulfate (SM 4500 SO4 E)	160		25		mg/L			02/12/25 14:48	5

Definitions/Glossary

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

Job ID: 500-263479-1

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^5-	Linear Range Check (LRC) 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.

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: 500-263479-1

Metals

Prep Batch: 805323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total Recoverable	Water	3005A	
500-263479-2	MW-02	Total Recoverable	Water	3005A	
500-263479-3	MW-03	Total Recoverable	Water	3005A	
500-263479-4	MW-16	Total Recoverable	Water	3005A	
500-263479-5	Duplicate	Total Recoverable	Water	3005A	
MB 500-805323/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-805323/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-263479-1 MS	MW-01	Total Recoverable	Water	3005A	
500-263479-1 MSD	MW-01	Total Recoverable	Water	3005A	
500-263479-1 DU	MW-01	Total Recoverable	Water	3005A	

Prep Batch: 805432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-6	MW-09	Total Recoverable	Water	3005A	
500-263479-7	MW-11	Total Recoverable	Water	3005A	
500-263479-8	MW-14	Total Recoverable	Water	3005A	
MB 500-805432/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-805432/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 805543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-6	MW-09	Total Recoverable	Water	6020B	805432
500-263479-7	MW-11	Total Recoverable	Water	6020B	805432
500-263479-7	MW-11	Total Recoverable	Water	6020B	805432
500-263479-8	MW-14	Total Recoverable	Water	6020B	805432
MB 500-805432/1-A	Method Blank	Total Recoverable	Water	6020B	805432
LCS 500-805432/2-A	Lab Control Sample	Total Recoverable	Water	6020B	805432

Prep Batch: 805549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-9	MW-04	Total Recoverable	Water	3005A	
MB 500-805549/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-805549/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 805560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total/NA	Water	7470A	
500-263479-2	MW-02	Total/NA	Water	7470A	
500-263479-3	MW-03	Total/NA	Water	7470A	
500-263479-4	MW-16	Total/NA	Water	7470A	
500-263479-5	Duplicate	Total/NA	Water	7470A	
500-263479-6	MW-09	Total/NA	Water	7470A	
500-263479-7	MW-11	Total/NA	Water	7470A	
500-263479-8	MW-14	Total/NA	Water	7470A	
500-263479-9	MW-04	Total/NA	Water	7470A	
MB 500-805560/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-805560/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 805839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total Recoverable	Water	6020B	805323

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QC Association Summary

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

Job ID: 500-263479-1

Metals (Continued)

Analysis Batch: 805839 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-2	MW-02	Total Recoverable	Water	6020B	805323
500-263479-3	MW-03	Total Recoverable	Water	6020B	805323
500-263479-4	MW-16	Total Recoverable	Water	6020B	805323
500-263479-5	Duplicate	Total Recoverable	Water	6020B	805323
500-263479-9	MW-04	Total Recoverable	Water	6020B	805549
MB 500-805323/1-A	Method Blank	Total Recoverable	Water	6020B	805323
MB 500-805549/1-A	Method Blank	Total Recoverable	Water	6020B	805549
LCS 500-805323/2-A	Lab Control Sample	Total Recoverable	Water	6020B	805323
LCS 500-805549/2-A	Lab Control Sample	Total Recoverable	Water	6020B	805549
500-263479-1 MS	MW-01	Total Recoverable	Water	6020B	805323
500-263479-1 MSD	MW-01	Total Recoverable	Water	6020B	805323
500-263479-1 DU	MW-01	Total Recoverable	Water	6020B	805323

Analysis Batch: 805957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total/NA	Water	7470A	805560
500-263479-2	MW-02	Total/NA	Water	7470A	805560
500-263479-3	MW-03	Total/NA	Water	7470A	805560
500-263479-4	MW-16	Total/NA	Water	7470A	805560
500-263479-5	Duplicate	Total/NA	Water	7470A	805560
500-263479-6	MW-09	Total/NA	Water	7470A	805560
500-263479-7	MW-11	Total/NA	Water	7470A	805560
500-263479-8	MW-14	Total/NA	Water	7470A	805560
500-263479-9	MW-04	Total/NA	Water	7470A	805560
MB 500-805560/12-A	Method Blank	Total/NA	Water	7470A	805560
LCS 500-805560/13-A	Lab Control Sample	Total/NA	Water	7470A	805560

Analysis Batch: 806049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total Recoverable	Water	6020B	805323
500-263479-2	MW-02	Total Recoverable	Water	6020B	805323
500-263479-3	MW-03	Total Recoverable	Water	6020B	805323
500-263479-4	MW-16	Total Recoverable	Water	6020B	805323
500-263479-5	Duplicate	Total Recoverable	Water	6020B	805323
500-263479-9	MW-04	Total Recoverable	Water	6020B	805549
MB 500-805323/1-A	Method Blank	Total Recoverable	Water	6020B	805323
MB 500-805549/1-A	Method Blank	Total Recoverable	Water	6020B	805549
LCS 500-805323/2-A	Lab Control Sample	Total Recoverable	Water	6020B	805323
LCS 500-805549/2-A	Lab Control Sample	Total Recoverable	Water	6020B	805549
500-263479-1 MS	MW-01	Total Recoverable	Water	6020B	805323
500-263479-1 MSD	MW-01	Total Recoverable	Water	6020B	805323
500-263479-1 DU	MW-01	Total Recoverable	Water	6020B	805323

General Chemistry

Analysis Batch: 805289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total/NA	Water	SM 2540C	
500-263479-2	MW-02	Total/NA	Water	SM 2540C	
500-263479-3	MW-03	Total/NA	Water	SM 2540C	
500-263479-4	MW-16	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-263479-1

General Chemistry (Continued)

Analysis Batch: 805289 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-5	Duplicate	Total/NA	Water	SM 2540C	
MB 500-805289/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-805289/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 805410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-263479-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-263479-4	MW-16	Total/NA	Water	SM 4500 SO4 E	
MB 500-805410/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-805410/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 805483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total/NA	Water	SM 4500 F C	
500-263479-2	MW-02	Total/NA	Water	SM 4500 F C	
500-263479-3	MW-03	Total/NA	Water	SM 4500 F C	
500-263479-4	MW-16	Total/NA	Water	SM 4500 F C	
MB 500-805483/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-805483/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 805570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-6	MW-09	Total/NA	Water	SM 2540C	
500-263479-7	MW-11	Total/NA	Water	SM 2540C	
500-263479-8	MW-14	Total/NA	Water	SM 2540C	
MB 500-805570/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-805570/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-263479-6 MS	MW-09	Total/NA	Water	SM 2540C	
500-263479-6 DU	MW-09	Total/NA	Water	SM 2540C	
500-263479-7 DU	MW-11	Total/NA	Water	SM 2540C	

Analysis Batch: 805605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-5	Duplicate	Total/NA	Water	SM 4500 F C	
500-263479-6	MW-09	Total/NA	Water	SM 4500 F C	
500-263479-7	MW-11	Total/NA	Water	SM 4500 F C	
500-263479-8	MW-14	Total/NA	Water	SM 4500 F C	
MB 500-805605/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-805605/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 805714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-9	MW-04	Total/NA	Water	SM 4500 F C	
MB 500-805714/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-805714/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 805828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-263479-2	MW-02	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

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

Job ID: 500-263479-1

General Chemistry (Continued)

Analysis Batch: 805828 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-263479-4	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-263479-5	Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-263479-6	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-263479-7	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-263479-8	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-263479-9	MW-04	Total/NA	Water	SM 4500 Cl- E	
MB 500-805828/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 500-805828/61	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-805828/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 500-805828/62	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 806006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-9	MW-04	Total/NA	Water	SM 2540C	
MB 500-806006/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-806006/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-263479-9 MS	MW-04	Total/NA	Water	SM 2540C	
500-263479-9 DU	MW-04	Total/NA	Water	SM 2540C	

Analysis Batch: 806251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-263479-5	Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-263479-6	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-263479-7	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-263479-8	MW-14	Total/NA	Water	SM 4500 SO4 E	
MB 500-806251/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-806251/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 806336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-9	MW-04	Total/NA	Water	SM 4500 SO4 E	
MB 500-806336/100	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-806336/101	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

QC Sample Results

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

Job ID: 500-263479-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-805323/1-A
Matrix: Water
Analysis Batch: 805839

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/05/25 08:21	02/07/25 15:13	1
Arsenic	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:13	1
Barium	<0.0025		0.0025		mg/L		02/05/25 08:21	02/07/25 15:13	1
Beryllium	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:13	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:13	1
Calcium	<0.20		0.20		mg/L		02/05/25 08:21	02/07/25 15:13	1
Chromium	<0.0050		0.0050		mg/L		02/05/25 08:21	02/07/25 15:13	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 08:21	02/07/25 15:13	1
Lead	<0.00050		0.00050		mg/L		02/05/25 08:21	02/07/25 15:13	1
Lithium	<0.010		0.010		mg/L		02/05/25 08:21	02/07/25 15:13	1
Molybdenum	<0.0050		0.0050		mg/L		02/05/25 08:21	02/07/25 15:13	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 08:21	02/07/25 15:13	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 08:21	02/07/25 15:13	1

Lab Sample ID: MB 500-805323/1-A
Matrix: Water
Analysis Batch: 806049

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		02/05/25 08:21	02/10/25 13:43	1

Lab Sample ID: LCS 500-805323/2-A
Matrix: Water
Analysis Batch: 805839

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.500	0.515		mg/L		103	80 - 120
Beryllium	0.0500	0.0537		mg/L		107	80 - 120
Cadmium	0.0500	0.0533		mg/L		107	80 - 120
Calcium	10.0	8.65		mg/L		87	80 - 120
Chromium	0.200	0.213		mg/L		107	80 - 120
Cobalt	0.500	0.520		mg/L		104	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Lithium	0.100	0.105		mg/L		105	80 - 120
Molybdenum	1.00	1.01		mg/L		101	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: LCS 500-805323/2-A
Matrix: Water
Analysis Batch: 806049

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 805323

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: 500-263479-1

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

Lab Sample ID: 500-263479-1 MS
Matrix: Water
Analysis Batch: 805839

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.556		mg/L		111	75 - 125
Arsenic	0.019		0.100	0.126		mg/L		107	75 - 125
Barium	0.037		0.500	0.557		mg/L		104	75 - 125
Beryllium	<0.0010		0.0500	0.0512		mg/L		102	75 - 125
Cadmium	<0.00050		0.0500	0.0537		mg/L		107	75 - 125
Calcium	66		10.0	77.6	4	mg/L		119	75 - 125
Chromium	<0.0050		0.200	0.212		mg/L		106	75 - 125
Cobalt	<0.0010		0.500	0.493		mg/L		99	75 - 125
Lead	<0.00050		0.100	0.102		mg/L		102	75 - 125
Lithium	<0.010		0.100	0.104		mg/L		104	75 - 125
Molybdenum	0.025		1.00	1.06		mg/L		104	75 - 125
Selenium	<0.0025		0.100	0.106		mg/L		106	75 - 125
Thallium	<0.0020		0.100	0.103		mg/L		103	75 - 125

Lab Sample ID: 500-263479-1 MS
Matrix: Water
Analysis Batch: 806049

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.8		1.00	2.89		mg/L		107	75 - 125

Lab Sample ID: 500-263479-1 MSD
Matrix: Water
Analysis Batch: 805839

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.551		mg/L		110	75 - 125	1	20
Arsenic	0.019		0.100	0.125		mg/L		105	75 - 125	1	20
Barium	0.037		0.500	0.551		mg/L		103	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0518		mg/L		104	75 - 125	1	20
Cadmium	<0.00050		0.0500	0.0529		mg/L		106	75 - 125	2	20
Calcium	66		10.0	74.8	4	mg/L		90	75 - 125	4	20
Chromium	<0.0050		0.200	0.208		mg/L		104	75 - 125	2	20
Cobalt	<0.0010		0.500	0.482		mg/L		96	75 - 125	2	20
Lead	<0.00050		0.100	0.101		mg/L		101	75 - 125	1	20
Lithium	<0.010		0.100	0.102		mg/L		102	75 - 125	2	20
Molybdenum	0.025		1.00	1.06		mg/L		103	75 - 125	0	20
Selenium	<0.0025		0.100	0.101		mg/L		101	75 - 125	4	20
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125	1	20

Lab Sample ID: 500-263479-1 MSD
Matrix: Water
Analysis Batch: 806049

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	1.8		1.00	2.85		mg/L		104	75 - 125	1	20

QC Sample Results

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

Job ID: 500-263479-1

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

Lab Sample ID: 500-263479-1 DU
Matrix: Water
Analysis Batch: 805839

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.019		0.0196		mg/L		0.9	20
Barium	0.037		0.0383		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	66		67.4		mg/L		2	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		0.0250		mg/L		1	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-263479-1 DU
Matrix: Water
Analysis Batch: 806049

Client Sample ID: MW-01
Prep Type: Total Recoverable
Prep Batch: 805323

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	1.8		1.89		mg/L		4	20

Lab Sample ID: MB 500-805432/1-A
Matrix: Water
Analysis Batch: 805543

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 805432

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/05/25 14:45	02/06/25 11:19	1
Arsenic	<0.0010		0.0010		mg/L		02/05/25 14:45	02/06/25 11:19	1
Barium	<0.0025		0.0025		mg/L		02/05/25 14:45	02/06/25 11:19	1
Beryllium	<0.0010	^1+	0.0010		mg/L		02/05/25 14:45	02/06/25 11:19	1
Boron	<0.050		0.050		mg/L		02/05/25 14:45	02/06/25 11:19	1
Cadmium	<0.00050		0.00050		mg/L		02/05/25 14:45	02/06/25 11:19	1
Calcium	<0.20		0.20		mg/L		02/05/25 14:45	02/06/25 11:19	1
Chromium	<0.0050		0.0050		mg/L		02/05/25 14:45	02/06/25 11:19	1
Cobalt	<0.0010		0.0010		mg/L		02/05/25 14:45	02/06/25 11:19	1
Lead	<0.00050		0.00050		mg/L		02/05/25 14:45	02/06/25 11:19	1
Lithium	<0.010	^5-	0.010		mg/L		02/05/25 14:45	02/06/25 11:19	1
Molybdenum	<0.0050		0.0050		mg/L		02/05/25 14:45	02/06/25 11:19	1
Selenium	<0.0025		0.0025		mg/L		02/05/25 14:45	02/06/25 11:19	1
Thallium	<0.0020		0.0020		mg/L		02/05/25 14:45	02/06/25 11:19	1

Lab Sample ID: LCS 500-805432/2-A
Matrix: Water
Analysis Batch: 805543

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 805432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0970		mg/L		97	80 - 120
Barium	0.500	0.503		mg/L		101	80 - 120

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QC Sample Results

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

Job ID: 500-263479-1

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

Lab Sample ID: LCS 500-805432/2-A
Matrix: Water
Analysis Batch: 805543

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 805432

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0515	^1+	mg/L		103	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Calcium	10.0	9.17		mg/L		92	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.523		mg/L		105	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Lithium	0.100	0.102	^5-	mg/L		102	80 - 120
Molybdenum	1.00	0.973		mg/L		97	80 - 120
Selenium	0.100	0.0998		mg/L		100	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: MB 500-805549/1-A
Matrix: Water
Analysis Batch: 805839

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 805549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/06/25 15:15	02/07/25 13:03	1
Arsenic	<0.0010		0.0010		mg/L		02/06/25 15:15	02/07/25 13:03	1
Barium	<0.0025		0.0025		mg/L		02/06/25 15:15	02/07/25 13:03	1
Beryllium	<0.0010		0.0010		mg/L		02/06/25 15:15	02/07/25 13:03	1
Cadmium	<0.00050		0.00050		mg/L		02/06/25 15:15	02/07/25 13:03	1
Calcium	<0.20		0.20		mg/L		02/06/25 15:15	02/07/25 13:03	1
Chromium	<0.0050		0.0050		mg/L		02/06/25 15:15	02/07/25 13:03	1
Cobalt	<0.0010		0.0010		mg/L		02/06/25 15:15	02/07/25 13:03	1
Lead	<0.00050		0.00050		mg/L		02/06/25 15:15	02/07/25 13:03	1
Lithium	<0.010		0.010		mg/L		02/06/25 15:15	02/07/25 13:03	1
Molybdenum	<0.0050		0.0050		mg/L		02/06/25 15:15	02/07/25 13:03	1
Selenium	<0.0025		0.0025		mg/L		02/06/25 15:15	02/07/25 13:03	1
Thallium	<0.0020		0.0020		mg/L		02/06/25 15:15	02/07/25 13:03	1

Lab Sample ID: MB 500-805549/1-A
Matrix: Water
Analysis Batch: 806049

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 805549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		02/06/25 15:15	02/10/25 16:36	1

Lab Sample ID: LCS 500-805549/2-A
Matrix: Water
Analysis Batch: 805839

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 805549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.519		mg/L		104	80 - 120
Arsenic	0.100	0.0993		mg/L		99	80 - 120
Barium	0.500	0.504		mg/L		101	80 - 120
Beryllium	0.0500	0.0492		mg/L		98	80 - 120
Cadmium	0.0500	0.0514		mg/L		103	80 - 120
Calcium	10.0	8.42		mg/L		84	80 - 120

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QC Sample Results

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

Job ID: 500-263479-1

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

Lab Sample ID: LCS 500-805549/2-A
Matrix: Water
Analysis Batch: 805839

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 805549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.208		mg/L		104	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Lead	0.100	0.0984		mg/L		98	80 - 120
Lithium	0.100	0.0977		mg/L		98	80 - 120
Molybdenum	1.00	0.981		mg/L		98	80 - 120
Selenium	0.100	0.0998		mg/L		100	80 - 120
Thallium	0.100	0.101		mg/L		101	80 - 120

Lab Sample ID: LCS 500-805549/2-A
Matrix: Water
Analysis Batch: 806049

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 805549

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.928		mg/L		93	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-805560/12-A
Matrix: Water
Analysis Batch: 805957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 805560

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		02/06/25 16:00	02/10/25 12:24	1

Lab Sample ID: LCS 500-805560/13-A
Matrix: Water
Analysis Batch: 805957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 805560

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00195		mg/L		98	80 - 120

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

Lab Sample ID: MB 500-805289/1
Matrix: Water
Analysis Batch: 805289

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			02/05/25 02:29	1

Lab Sample ID: LCS 500-805289/2
Matrix: Water
Analysis Batch: 805289

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

QC Sample Results

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

Job ID: 500-263479-1

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

Lab Sample ID: MB 500-805570/1
Matrix: Water
Analysis Batch: 805570

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			02/07/25 01:23	1

Lab Sample ID: LCS 500-805570/2
Matrix: Water
Analysis Batch: 805570

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	260		mg/L		104	80 - 120

Lab Sample ID: 500-263479-6 MS
Matrix: Water
Analysis Batch: 805570

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	890		250	1190		mg/L		121	75 - 125

Lab Sample ID: 500-263479-6 DU
Matrix: Water
Analysis Batch: 805570

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	890		852		mg/L		4	5

Lab Sample ID: 500-263479-7 DU
Matrix: Water
Analysis Batch: 805570

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	670		700		mg/L		4	5

Lab Sample ID: MB 500-806006/1
Matrix: Water
Analysis Batch: 806006

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			02/10/25 22:41	1

Lab Sample ID: LCS 500-806006/2
Matrix: Water
Analysis Batch: 806006

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	252		mg/L		101	80 - 120

Lab Sample ID: 500-263479-9 MS
Matrix: Water
Analysis Batch: 806006

Client Sample ID: MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	460		250	734		mg/L		111	75 - 125

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QC Sample Results

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

Job ID: 500-263479-1

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

Lab Sample ID: 500-263479-9 DU
Matrix: Water
Analysis Batch: 806006

Client Sample ID: MW-04
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	460		470		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-805828/16
Matrix: Water
Analysis Batch: 805828

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			02/09/25 10:21	1

Lab Sample ID: MB 500-805828/61
Matrix: Water
Analysis Batch: 805828

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			02/09/25 11:05	1

Lab Sample ID: LCS 500-805828/17
Matrix: Water
Analysis Batch: 805828

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.5		mg/L		103	85 - 115

Lab Sample ID: LCS 500-805828/62
Matrix: Water
Analysis Batch: 805828

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

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-805483/3
Matrix: Water
Analysis Batch: 805483

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			02/05/25 10:08	1

Lab Sample ID: LCS 500-805483/4
Matrix: Water
Analysis Batch: 805483

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.74		mg/L		97	90 - 119

QC Sample Results

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

Job ID: 500-263479-1

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MB 500-805605/3
Matrix: Water
Analysis Batch: 805605

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			02/06/25 12:41	1

Lab Sample ID: LCS 500-805605/4
Matrix: Water
Analysis Batch: 805605

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.87		mg/L		99	90 - 119

Lab Sample ID: MB 500-805714/3
Matrix: Water
Analysis Batch: 805714

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			02/07/25 11:08	1

Lab Sample ID: LCS 500-805714/4
Matrix: Water
Analysis Batch: 805714

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	10.0		mg/L		100	90 - 119

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-805410/16
Matrix: Water
Analysis Batch: 805410

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			02/05/25 11:17	1

Lab Sample ID: LCS 500-805410/17
Matrix: Water
Analysis Batch: 805410

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	22.0		mg/L		110	88 - 123

Lab Sample ID: MB 500-806251/16
Matrix: Water
Analysis Batch: 806251

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			02/11/25 14:07	1

QC Sample Results

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

Job ID: 500-263479-1

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

Lab Sample ID: LCS 500-806251/17
Matrix: Water
Analysis Batch: 806251

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.8		mg/L		104	88 - 123

Lab Sample ID: MB 500-806336/100
Matrix: Water
Analysis Batch: 806336

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			02/12/25 14:38	1

Lab Sample ID: LCS 500-806336/101
Matrix: Water
Analysis Batch: 806336

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

Eurofins Chicago

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

Chain of Custody Record

eurofins | Environment Testing

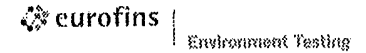
Client Information		Sampler Kaelyn Sperle		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No. 500-132935-44027 1					
Client Contact Mitchel DeLeon Kaelyn Sperle		Phone: 262-278-1621		E-Mail Diana.Mockler@et.eurofins.com		State of Origin IL		Page Page 1 of 1					
Company KPRG and Associates, Inc.		PWSID		Analysis Requested						Job # 500-263479			
Address 14665 West Lisbon Road, Suite 1A		Due Date Requested Standard		FREQ Filtered Samples (Yes or No) Perform (MSDS) (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_C1_E, SM4500_S04_E						Preservation Codes. D - HNO3 N - None			
City Brookfield		TAT Requested (days) Standard								QR Code		500-263479 COC	
State, Zip: WI, 53005		Compliance Project. Δ Yes Δ No											
Phone: 262-781-0475(Tel)		PO #. 4502188389											
Email mitchel@kprginc.com kaelyns@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)		Preservation Code		Special Instructions/Note:	
1 MW-01		2/3/25		1150		G		Water		N N X X X			
2 MW-02		2/3/25		1253		↓		Water		↓ ↓ ↓ ↓ ↓			
3 MW-03		2/3/25		1428		↓		Water		↓ ↓ ↓ ↓ ↓			
MW-04								Water					
MW-09								Water					
MW-11								Water					
MW-14								Water					
4 MW-16		2/3/25		1556		G		Water		N N X X X			
5 Duplicate		2/3/25		-		↓		Water		↓ ↓ ↓ ↓ ↓			
								Water					
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested I, II, III, IV, Other (specify)						Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipment.							
Relinquished by <i>Kaelyn Sperle</i>		Date/Time 2/3/25/1715		Company KPRG		Received by FedEx		Date/Time 2/3/25/1715		Company FedEx			
Relinquished by		Date/Time		Company		Received by <i>Stephanie Hernandez</i>		Date/Time 2/4/25 0910		Company FEIA			
Relinquished by		Date/Time		Company		Received by		Date/Time		Company			
Custody Seals Intact. Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks 4.1 → 4.0									



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

Chain of Custody Record

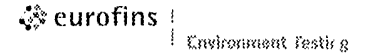


Client Information		Sampler <i>Kaelyn Sperle</i>	Lab PM Mockler, Diana J	Carrier Tracking No(s)	COC No: 500-132935-44027 1	
Client Contact Mitchel DeLan <i>Kaelyn Sperle</i>		Phone <i>262-278-1621</i>	E-Mail Diana.Mockler@et.eurofinsus.com	State of Origin <i>IL</i>	Page Page 1 of 1	
Company KPRG and Associates, Inc.		PWSID	Analysis Requested			
Address 14665 West Lisbon Road, Suite 1A City: Brookfield State, Zip: WI, 53005 Phone: 262-781-0475(Tel) Email: <i>mitchel@kprginc.com</i> <i>kaelyns@kprginc.com</i>		Due Date Requested: <i>Standard</i>	Job # <i>500-263479</i>			Preservation Codes: D - HNO3 N - None Other:
500-263479 COC		TAT Requested (days) <i>Standard</i>	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)			
Project Name Waukegan CCR Event Desc. Quarterly Waukegan CCR		Compliance Project <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	903.0, 904.0			
Site Illinois		PO # 4502188389	6010C, 6020A, 7470A			
SSOW#		WO #	2540C, 4500_F_C, SM4500_CLE, SM4500_S04_E			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Special Instructions/Note:
				Preservation Code		
MW-01					Water	
MW-02					Water	
MW-03					Water	
MW-04					Water	
<i>6</i> MW-09		<i>2/4/25</i>	<i>1318</i>	<i>G</i>	Water	<i>N N X X X</i>
<i>7</i> MW-11		<i>2/4/25</i>	<i>1035</i>	<i>↓</i>	Water	<i>N N ↓ ↓ ↓</i>
<i>8</i> MW-14		<i>2/4/25</i>	<i>1154</i>	<i>↓</i>	Water	<i>N N ↓ ↓ ↓</i>
MW-16					Water	
Duplicate					Water	
Duplicate					Water	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I, II, III, IV, Other (specify)			Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date	Time	Method of Shipment		
Relinquished by <i>Kaelyn DeLan</i>		Date/Time <i>2/4/25/1645</i>	Company <i>KPRG</i>	Received by <i>FedEx</i>	Date/Time <i>2/4/25/1645</i>	
Relinquished by		Date/Time	Company	Received by <i>the lock</i>	Date/Time <i>2/5/25 0910</i>	
Relinquished by		Date/Time	Company	Received by	Date/Time	
Custody Seals Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks <i>21-220</i>		

Eurofins Chicago

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

Chain of Custody Record



Client Information		Sampler: <u>Kaelyn Sperle</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-132935-44027 1																																																															
Client Contact: <u>Mitchel Dolan - Kaelyn Sperle</u>		Phone: <u>262-278-1621</u>		E-Mail: <u>Diana Mockler@et.eurofinsus.com</u>		State of Origin: <u>IL</u>		Page: Page 1 of 1																																																															
Company: <u>KPRG and Associates, Inc</u>		PWSID:		Analysis Requested						Job #: <u>500-263479</u>																																																													
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested: <u>Standard</u>		<table border="1"> <tr> <td colspan="6">TAT Requested (days): <u>Standard</u></td> <td colspan="6">Preservation Codes: D HNO3, N None</td> </tr> <tr> <td colspan="6">Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No</td> <td colspan="6">Field Filtered Sample (Yes or No):</td> </tr> <tr> <td colspan="6">PO #: <u>4502188389</u></td> <td colspan="6">Perform MS/MS (Yes or No):</td> </tr> <tr> <td colspan="6">WO #:</td> <td colspan="6">903.0, 904.0</td> </tr> <tr> <td colspan="6">Project Name: <u>Waukegan CCR Event Desc Quarterly Waukegan CCR</u></td> <td colspan="6">6010C, 6020A, 7470A</td> </tr> </table>						TAT Requested (days): <u>Standard</u>						Preservation Codes: D HNO3, N None						Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No						Field Filtered Sample (Yes or No):						PO #: <u>4502188389</u>						Perform MS/MS (Yes or No):						WO #:						903.0, 904.0						Project Name: <u>Waukegan CCR Event Desc Quarterly Waukegan CCR</u>						6010C, 6020A, 7470A						Other:	
TAT Requested (days): <u>Standard</u>										Preservation Codes: D HNO3, N None																																																													
Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No										Field Filtered Sample (Yes or No):																																																													
PO #: <u>4502188389</u>										Perform MS/MS (Yes or No):																																																													
WO #:										903.0, 904.0																																																													
Project Name: <u>Waukegan CCR Event Desc Quarterly Waukegan CCR</u>						6010C, 6020A, 7470A																																																																	
City: <u>Brookfield</u>		TAT Requested (days): <u>Standard</u>		2540C, 4500_F_C, SM4500_SO4_E						Total Number of Containers:																																																													
State/Zip: <u>WI, 53005</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Special Instructions/Note:						5																																																													
Phone: <u>262-781-0475(Tel)</u>		Project #: <u>50011597</u>		Preservation Code: <u>X D D N</u>																																																																			
Email: <u>mitche@d@kprginc.com</u>		SSOW#:																																																																					
Project Name: <u>Waukegan CCR Event Desc Quarterly Waukegan CCR</u>		Site: <u>Illinois</u>																																																																					
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)						Total Number of Containers																																																											
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						6010C, 6020A, 7470A																																																																	
						2540C, 4500_F_C, SM4500_SO4_E																																																																	
<u>MW-04</u>		<u>2/5/25</u>	<u>1216</u>	<u>G</u>	<u>Water</u>	<u>N</u>	<u>N</u>	<u>X</u>	<u>X</u>	<u>X</u>																																																													
<u>MW-09</u>					<u>Water</u>																																																																		
<u>MW-11</u>					<u>Water</u>																																																																		
<u>MW-14</u>					<u>Water</u>																																																																		
<u>MW-16</u>					<u>Water</u>																																																																		
<u>Duplicate</u>					<u>Water</u>																																																																		
<u>Water</u>					<u>Water</u>																																																																		

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

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

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

Empty Kit Relinquished by		Date		Time		Method of Shipment:	
Relinquished by: <u>Kaelyn Sperle</u>		Date/Time: <u>2/5/25/1700</u>		Company: <u>KPRG</u>		Received by: <u>FedEx</u>	
Relinquished by:		Date/Time:		Company:		Date/Time: <u>2/5/25/1700</u>	
Relinquished by:		Date/Time:		Company:		Date/Time: <u>2/6/25 0905</u>	
Relinquished by:		Date/Time:		Company:		Date/Time:	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.2 → 0.1</u>			



KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 25 00 LB MAN
CAD: 0780307/CAFE3855

Part # 159469-434 MTRW EXP 09/25



500-263479 Waybi

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 634-6200

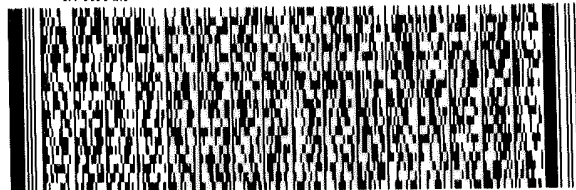
REF:

INU:

DEPT

PO:

RMA. III III III III



FedEx
Express



AN 10P0L0P20327

FedEx

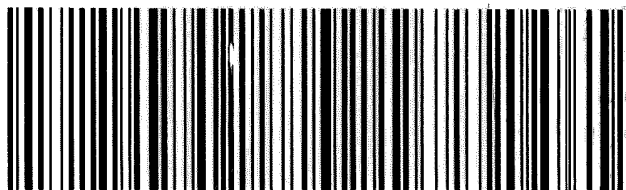
TRK# 4376 0568 1842
0221

TUE - 04 FEB 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD

Part # 156297-435 BRNDF EXP 09/25



- 1
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- 10
- 11
- 12
- 13

KAELYN SPERLE
KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 25 00 LB MAN
CAD- 0780307/CAFE3855

Part 159468-454 WTMV EXP 09/25
SRK12/FF17/FF20

TO: **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

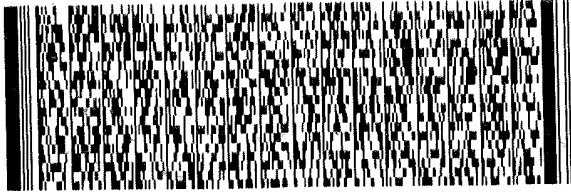
UNIVERSITY PARK IL 60484

(708) 634-6200
INU:
PO:

REF:

DEPT:

RMA. ||| |||||



FedEx
Express

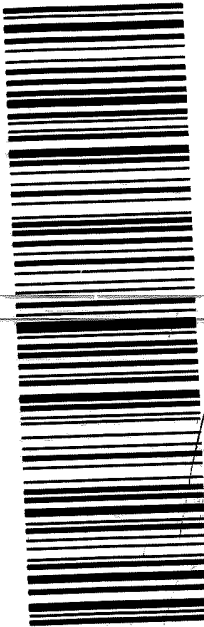


4410P04342463E27



500-263479 Waybi

439588 02/04 SRK12/FF17/FF20



79 JOTA

FedEx
TRK #
0221
4376 0568 1809

WED - 05 FEB 10:30A
PRIORITY OVERNIGHT

IL-US
60484
ORD

10297-435 SRK12/FF17/FF20 EXP 09/25

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500-263479 Waybi

KAELYN SPERLE
 KPRG AND ASSOCIATES, INC
 14665 WEST LIBSON ROAD
 SUITE 1A
 BROOKFIELD, WI 53005
 UNITED STATES US

ACTWGT: 25.00 LB MAN
 CAD: 0780307/LAFE3855

Part # 159489-434 M/TW EXP 09/25

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

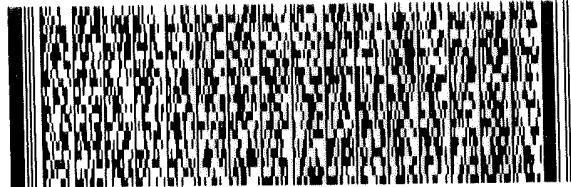
(708) 534-5200

REF:

NU:
 PO:

DEPT:

RMA



FedEx
 Express



JF2438324870101W

FedEx

TRK# 4376 0568 1794
 0221

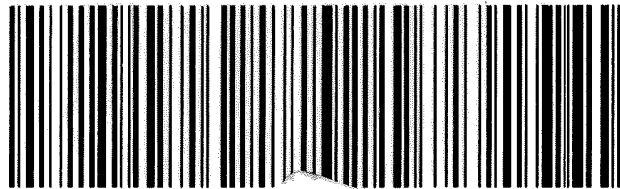
THU - 06 FEB 10:30A
PRIORITY OVERNIGHT

#16697-435-31101 EXP 09/25

79 JOTA

60484

IL - US **ORD**



PC504410 02105 000

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-263479-1

Login Number: 263479

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0,2.0,-0.1 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



Lab Chronicle

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

Job ID: 500-263479-1

Client Sample ID: MW-01
Date Collected: 02/03/25 11:50
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	806049	S1Z	EET CHI	02/10/25 13:50
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	805839	RN	EET CHI	02/07/25 15:18
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:37
Total/NA	Analysis	SM 2540C		1	805289	CLB	EET CHI	02/05/25 03:07
Total/NA	Analysis	SM 4500 CI- E		2	805828	TR	EET CHI	02/09/25 12:00
Total/NA	Analysis	SM 4500 F C		1	805483	SO	EET CHI	02/05/25 11:53
Total/NA	Analysis	SM 4500 SO4 E		5	806251	TR	EET CHI	02/11/25 14:34

Client Sample ID: MW-02
Date Collected: 02/03/25 12:53
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	806049	S1Z	EET CHI	02/10/25 14:08
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	805839	RN	EET CHI	02/07/25 15:31
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:39
Total/NA	Analysis	SM 2540C		1	805289	CLB	EET CHI	02/05/25 03:10
Total/NA	Analysis	SM 4500 CI- E		2	805828	TR	EET CHI	02/09/25 12:00
Total/NA	Analysis	SM 4500 F C		1	805483	SO	EET CHI	02/05/25 11:57
Total/NA	Analysis	SM 4500 SO4 E		5	805410	TR	EET CHI	02/05/25 11:30

Client Sample ID: MW-03
Date Collected: 02/03/25 14:28
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	806049	S1Z	EET CHI	02/10/25 14:12
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	805839	RN	EET CHI	02/07/25 15:33
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:42
Total/NA	Analysis	SM 2540C		1	805289	CLB	EET CHI	02/05/25 03:12
Total/NA	Analysis	SM 4500 CI- E		2	805828	TR	EET CHI	02/09/25 10:47
Total/NA	Analysis	SM 4500 F C		1	805483	SO	EET CHI	02/05/25 12:02
Total/NA	Analysis	SM 4500 SO4 E		5	805410	TR	EET CHI	02/05/25 11:30

Lab Chronicle

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

Job ID: 500-263479-1

Client Sample ID: MW-16
Date Collected: 02/03/25 15:56
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	806049	S1Z	EET CHI	02/10/25 14:16
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	805839	RN	EET CHI	02/07/25 15:36
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:44
Total/NA	Analysis	SM 2540C		1	805289	CLB	EET CHI	02/05/25 03:15
Total/NA	Analysis	SM 4500 Cl- E		2	805828	TR	EET CHI	02/09/25 10:47
Total/NA	Analysis	SM 4500 F C		1	805483	SO	EET CHI	02/05/25 12:07
Total/NA	Analysis	SM 4500 SO4 E		10	805410	TR	EET CHI	02/05/25 11:28

Client Sample ID: Duplicate
Date Collected: 02/03/25 00:00
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	806049	S1Z	EET CHI	02/10/25 14:30
Total Recoverable	Prep	3005A			805323	BDE	EET CHI	02/05/25 08:21 - 02/05/25 14:21 ¹
Total Recoverable	Analysis	6020B		1	805839	RN	EET CHI	02/07/25 15:44
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:46
Total/NA	Analysis	SM 2540C		1	805289	CLB	EET CHI	02/05/25 03:18
Total/NA	Analysis	SM 4500 Cl- E		2	805828	TR	EET CHI	02/09/25 10:47
Total/NA	Analysis	SM 4500 F C		1	805605	SO	EET CHI	02/06/25 13:12
Total/NA	Analysis	SM 4500 SO4 E		5	806251	TR	EET CHI	02/11/25 14:33

Client Sample ID: MW-09
Date Collected: 02/04/25 13:18
Date Received: 02/05/25 09:10

Lab Sample ID: 500-263479-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805432	S1Z	EET CHI	02/05/25 14:45 - 02/05/25 20:45 ¹
Total Recoverable	Analysis	6020B		1	805543	RN	EET CHI	02/06/25 11:44
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:48
Total/NA	Analysis	SM 2540C		1	805570	CLB	EET CHI	02/07/25 01:33
Total/NA	Analysis	SM 4500 Cl- E		5	805828	TR	EET CHI	02/09/25 10:46
Total/NA	Analysis	SM 4500 F C		1	805605	SO	EET CHI	02/06/25 13:17
Total/NA	Analysis	SM 4500 SO4 E		5	806251	TR	EET CHI	02/11/25 14:35

Lab Chronicle

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

Job ID: 500-263479-1

Client Sample ID: MW-11

Lab Sample ID: 500-263479-7

Date Collected: 02/04/25 10:35

Matrix: Water

Date Received: 02/05/25 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805432	S1Z	EET CHI	02/05/25 14:45 - 02/05/25 20:45 ¹
Total Recoverable	Analysis	6020B		1	805543	RN	EET CHI	02/06/25 11:47
Total Recoverable	Prep	3005A			805432	S1Z	EET CHI	02/05/25 14:45 - 02/05/25 20:45 ¹
Total Recoverable	Analysis	6020B		5	805543	RN	EET CHI	02/06/25 12:45
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:50
Total/NA	Analysis	SM 2540C		1	805570	CLB	EET CHI	02/07/25 01:41
Total/NA	Analysis	SM 4500 CI- E		5	805828	TR	EET CHI	02/09/25 10:45
Total/NA	Analysis	SM 4500 F C		1	805605	SO	EET CHI	02/06/25 13:22
Total/NA	Analysis	SM 4500 SO4 E		2	806251	TR	EET CHI	02/11/25 14:35

Client Sample ID: MW-14

Lab Sample ID: 500-263479-8

Date Collected: 02/04/25 11:54

Matrix: Water

Date Received: 02/05/25 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805432	S1Z	EET CHI	02/05/25 14:45 - 02/05/25 20:45 ¹
Total Recoverable	Analysis	6020B		1	805543	RN	EET CHI	02/06/25 11:49
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:57
Total/NA	Analysis	SM 2540C		1	805570	CLB	EET CHI	02/07/25 01:46
Total/NA	Analysis	SM 4500 CI- E		1	805828	TR	EET CHI	02/09/25 10:22
Total/NA	Analysis	SM 4500 F C		1	805605	SO	EET CHI	02/06/25 13:26
Total/NA	Analysis	SM 4500 SO4 E		1	806251	TR	EET CHI	02/11/25 14:11

Client Sample ID: MW-04

Lab Sample ID: 500-263479-9

Date Collected: 02/05/25 12:16

Matrix: Water

Date Received: 02/06/25 09:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			805549	S1Z	EET CHI	02/06/25 15:15 - 02/06/25 21:15 ¹
Total Recoverable	Analysis	6020B		1	806049	S1Z	EET CHI	02/10/25 18:13
Total Recoverable	Prep	3005A			805549	S1Z	EET CHI	02/06/25 15:15 - 02/06/25 21:15 ¹
Total Recoverable	Analysis	6020B		1	805839	RN	EET CHI	02/07/25 15:00
Total/NA	Prep	7470A			805560	S1Z	EET CHI	02/06/25 16:00 - 02/06/25 18:00 ¹
Total/NA	Analysis	7470A		1	805957	MJG	EET CHI	02/10/25 12:59
Total/NA	Analysis	SM 2540C		1	806006	CLB	EET CHI	02/10/25 22:46
Total/NA	Analysis	SM 4500 CI- E		5	805828	TR	EET CHI	02/09/25 10:48
Total/NA	Analysis	SM 4500 F C		1	805714	SO	EET CHI	02/07/25 11:45
Total/NA	Analysis	SM 4500 SO4 E		5	806336	TR	EET CHI	02/12/25 14:48

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

Laboratory References:

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

Eurofins Chicago

Accreditation/Certification Summary

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

Job ID: 500-263479-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	100201	05-31-25

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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 3/5/2025 3:55:53 PM

JOB DESCRIPTION

Waukegan CCR (RAD)

JOB NUMBER

500-263479-2

Eurofins Chicago

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



Generated
3/5/2025 3:55:53 PM

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: Waukegan CCR (RAD)

Job ID: 500-263479-2

Job ID: 500-263479-2

Eurofins Chicago

Job Narrative 500-263479-2

Receipt

The samples were received on 2/4/2025 9:20 AM, 2/5/2025 9:10 AM and 2/6/2025 9:05 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 -0.1°C, 2.0°C and 4.0°C.

Gas Flow Proportional Counter

Method 903.0: Radium 226 Batch 702044

The laboratory control sample (LCS) recovery is outside the upper QC limit indicating a potential positive bias for that analyte. This analyte was not observed above the RL in the associated samples; therefore the sample data is not adversely affected by this excursion. The data have been reported with this narrative. (LCS 160-702044/2-A)

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

Rad

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

Eurofins Chicago



Method Summary

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

Job ID: 500-263479-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-263479-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-263479-1	MW-01	Water	02/03/25 11:50	02/04/25 09:20
500-263479-2	MW-02	Water	02/03/25 12:53	02/04/25 09:20
500-263479-3	MW-03	Water	02/03/25 14:28	02/04/25 09:20
500-263479-4	MW-16	Water	02/03/25 15:56	02/04/25 09:20
500-263479-5	Duplicate	Water	02/03/25 00:00	02/04/25 09:20
500-263479-6	MW-09	Water	02/04/25 13:18	02/05/25 09:10
500-263479-7	MW-11	Water	02/04/25 10:35	02/05/25 09:10
500-263479-8	MW-14	Water	02/04/25 11:54	02/05/25 09:10
500-263479-9	MW-04	Water	02/05/25 12:16	02/06/25 09:05

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Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: MW-01

Lab Sample ID: 500-263479-1

Date Collected: 02/03/25 11:50

Matrix: Water

Date Received: 02/04/25 09:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.0884	U	0.0631	0.0636	1.00	0.0884	pCi/L	02/06/25 08:00	02/28/25 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.4		30 - 110					02/06/25 08:00	02/28/25 09:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.626	U	0.380	0.381	1.00	0.626	pCi/L	02/06/25 08:04	02/14/25 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.4		30 - 110					02/06/25 08:04	02/14/25 11:59	1
Y Carrier	75.5		30 - 110					02/06/25 08:04	02/14/25 11:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.626	U	0.385	0.386	5.00	0.626	pCi/L		03/03/25 12:21	1

Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: MW-02
Date Collected: 02/03/25 12:53
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-2
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.0952	U	0.0566	0.0568	1.00	0.0952	pCi/L	02/06/25 08:00	02/28/25 09:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		30 - 110					02/06/25 08:00	02/28/25 09:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.609	U	0.310	0.310	1.00	0.609	pCi/L	02/06/25 08:04	02/14/25 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.9		30 - 110					02/06/25 08:04	02/14/25 11:59	1
Y Carrier	75.1		30 - 110					02/06/25 08:04	02/14/25 11:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.609	U	0.315	0.315	5.00	0.609	pCi/L		03/03/25 12:21	1

Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: MW-03
Date Collected: 02/03/25 14:28
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-3
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.105	U	0.0502	0.0502	1.00	0.105	pCi/L	02/06/25 08:00	02/28/25 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		30 - 110					02/06/25 08:00	02/28/25 09:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.633	U	0.387	0.388	1.00	0.633	pCi/L	02/06/25 08:04	02/14/25 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.6		30 - 110					02/06/25 08:04	02/14/25 11:59	1
Y Carrier	73.6		30 - 110					02/06/25 08:04	02/14/25 11:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.633	U	0.390	0.391	5.00	0.633	pCi/L		03/03/25 12:21	1

Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: MW-16
Date Collected: 02/03/25 15:56
Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.249		0.0946	0.0972	1.00	0.0930	pCi/L	02/06/25 08:00	02/28/25 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					02/06/25 08:00	02/28/25 09:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.565	U	0.323	0.324	1.00	0.565	pCi/L	02/06/25 08:04	02/14/25 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					02/06/25 08:04	02/14/25 11:59	1
Y Carrier	73.3		30 - 110					02/06/25 08:04	02/14/25 11:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.565	U	0.337	0.338	5.00	0.565	pCi/L		03/03/25 12:21	1

Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: Duplicate

Lab Sample ID: 500-263479-5

Date Collected: 02/03/25 00:00

Matrix: Water

Date Received: 02/04/25 09:20

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.103	U	0.0488	0.0488	1.00	0.103	pCi/L	02/06/25 08:00	02/28/25 09:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					02/06/25 08:00	02/28/25 09:26	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.657	U	0.280	0.283	1.00	0.657	pCi/L	02/06/25 08:04	02/14/25 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					02/06/25 08:04	02/14/25 11:59	1
Y Carrier	79.3		30 - 110					02/06/25 08:04	02/14/25 11:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.657	U	0.284	0.287	5.00	0.657	pCi/L		03/03/25 12:21	1

Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: MW-09
Date Collected: 02/04/25 13:18
Date Received: 02/05/25 09:10

Lab Sample ID: 500-263479-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.195	*	0.118	0.119	1.00	0.154	pCi/L	02/07/25 07:47	03/03/25 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.4		30 - 110					02/07/25 07:47	03/03/25 09:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.685	U	0.410	0.411	1.00	0.685	pCi/L	02/07/25 07:56	02/27/25 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.4		30 - 110					02/07/25 07:56	02/27/25 12:29	1
Y Carrier	77.4		30 - 110					02/07/25 07:56	02/27/25 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.685	U	0.427	0.428	5.00	0.685	pCi/L		03/04/25 16:48	1

Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: MW-11
Date Collected: 02/04/25 10:35
Date Received: 02/05/25 09:10

Lab Sample ID: 500-263479-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.561	*	0.190	0.197	1.00	0.172	pCi/L	02/07/25 07:47	03/03/25 09:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/07/25 07:47	03/03/25 09:50	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.70		0.565	0.586	1.00	0.649	pCi/L	02/07/25 07:56	02/27/25 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.3		30 - 110					02/07/25 07:56	02/27/25 12:29	1
Y Carrier	82.2		30 - 110					02/07/25 07:56	02/27/25 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	2.26		0.596	0.618	5.00	0.649	pCi/L		03/04/25 16:48	1

Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: MW-14

Lab Sample ID: 500-263479-8

Date Collected: 02/04/25 11:54

Matrix: Water

Date Received: 02/05/25 09:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.207	*	0.145	0.146	1.00	0.200	pCi/L	02/07/25 07:47	03/03/25 09:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		30 - 110					02/07/25 07:47	03/03/25 09:59	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.802	U	0.532	0.537	1.00	0.802	pCi/L	02/07/25 07:56	02/27/25 12:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.0		30 - 110					02/07/25 07:56	02/27/25 12:29	1
Y Carrier	79.3		30 - 110					02/07/25 07:56	02/27/25 12:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.949		0.551	0.556	5.00	0.802	pCi/L		03/04/25 16:48	1

Client Sample Results

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

Job ID: 500-263479-2

Client Sample ID: MW-04
Date Collected: 02/05/25 12:16
Date Received: 02/06/25 09:05

Lab Sample ID: 500-263479-9
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.142		0.0970	0.0978	1.00	0.134	pCi/L	02/10/25 08:58	03/04/25 07:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					02/10/25 08:58	03/04/25 07:43	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.535	U	0.281	0.281	1.00	0.535	pCi/L	02/10/25 09:01	02/27/25 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110					02/10/25 09:01	02/27/25 12:26	1
Y Carrier	80.4		30 - 110					02/10/25 09:01	02/27/25 12:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.535	U	0.297	0.298	5.00	0.535	pCi/L		03/05/25 15:04	1

Definitions/Glossary

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

Job ID: 500-263479-2

Qualifiers

Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

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

Job ID: 500-263479-2

Rad

Prep Batch: 701729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total/NA	Water	PrecSep-21	
500-263479-2	MW-02	Total/NA	Water	PrecSep-21	
500-263479-3	MW-03	Total/NA	Water	PrecSep-21	
500-263479-4	MW-16	Total/NA	Water	PrecSep-21	
500-263479-5	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-701729/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-701729/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 701730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-1	MW-01	Total/NA	Water	PrecSep_0	
500-263479-2	MW-02	Total/NA	Water	PrecSep_0	
500-263479-3	MW-03	Total/NA	Water	PrecSep_0	
500-263479-4	MW-16	Total/NA	Water	PrecSep_0	
500-263479-5	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-701730/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-701730/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 702044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-6	MW-09	Total/NA	Water	PrecSep-21	
500-263479-7	MW-11	Total/NA	Water	PrecSep-21	
500-263479-8	MW-14	Total/NA	Water	PrecSep-21	
MB 160-702044/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-702044/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 702045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-6	MW-09	Total/NA	Water	PrecSep_0	
500-263479-7	MW-11	Total/NA	Water	PrecSep_0	
500-263479-8	MW-14	Total/NA	Water	PrecSep_0	
MB 160-702045/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-702045/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 702255

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-9	MW-04	Total/NA	Water	PrecSep-21	
MB 160-702255/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-702255/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 702256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-263479-9	MW-04	Total/NA	Water	PrecSep_0	
MB 160-702256/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-702256/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-263479-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-701729/1-A
Matrix: Water
Analysis Batch: 705327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 701729

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.113	U	0.0518	0.0518	1.00	0.113	pCi/L	02/06/25 08:00	02/28/25 07:29	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					02/06/25 08:00	02/28/25 07:29	1
	95.2									

Lab Sample ID: LCS 160-701729/2-A
Matrix: Water
Analysis Batch: 705327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 701729

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec	Limits
				Uncert. (2σ+/-)					Limits	
Radium-226	9.58	9.071		0.948	1.00	0.0945	pCi/L	95	75 - 125	
Carrier	LCS		Limits							
Ba Carrier	%Yield	LCS Qualifier	30 - 110							
	98.7									

Lab Sample ID: MB 160-702044/1-A
Matrix: Water
Analysis Batch: 705675

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702044

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.142	U	0.0616	0.0616	1.00	0.142	pCi/L	02/07/25 07:47	03/03/25 07:58	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					02/07/25 07:47	03/03/25 07:58	1
	91.3									

Lab Sample ID: LCS 160-702044/2-A
Matrix: Water
Analysis Batch: 705677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702044

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec	Limits
				Uncert. (2σ+/-)					Limits	
Radium-226	9.58	12.43	*	1.41	1.00	0.185	pCi/L	130	75 - 125	
Carrier	LCS		Limits							
Ba Carrier	%Yield	LCS Qualifier	30 - 110							
	87.2									

Lab Sample ID: MB 160-702255/1-A
Matrix: Water
Analysis Batch: 705883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702255

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.134	U	0.0530	0.0531	1.00	0.134	pCi/L	02/10/25 08:58	03/04/25 07:48	1

Euofins Chicago

QC Sample Results

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

Job ID: 500-263479-2

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

Lab Sample ID: MB 160-702255/1-A
Matrix: Water
Analysis Batch: 705883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702255

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	91.1		30 - 110	02/10/25 08:58	03/04/25 07:48	1

Lab Sample ID: LCS 160-702255/2-A
Matrix: Water
Analysis Batch: 705883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702255

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	9.58	9.309		1.02	1.00	0.130	pCi/L	97	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.6		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-701730/1-A
Matrix: Water
Analysis Batch: 703041

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 701730

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.559	U	0.318	0.319	1.00	0.559	pCi/L	02/06/25 08:04	02/14/25 11:58	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.2		30 - 110	02/06/25 08:04	02/14/25 11:58	1
Y Carrier	79.3		30 - 110	02/06/25 08:04	02/14/25 11:58	1

Lab Sample ID: LCS 160-701730/2-A
Matrix: Water
Analysis Batch: 703041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 701730

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.10	7.427		1.06	1.00	0.479	pCi/L	92	75 - 125

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.7		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: MB 160-702045/1-A
Matrix: Water
Analysis Batch: 705085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702045

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.535	U	0.355	0.357	1.00	0.535	pCi/L	02/07/25 07:56	02/27/25 12:28	1

Euromins Chicago

QC Sample Results

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

Job ID: 500-263479-2

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

Lab Sample ID: MB 160-702045/1-A
Matrix: Water
Analysis Batch: 705085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702045

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	91.3		30 - 110	02/07/25 07:56	02/27/25 12:28	1
Y Carrier	77.4		30 - 110	02/07/25 07:56	02/27/25 12:28	1

Lab Sample ID: LCS 160-702045/2-A
Matrix: Water
Analysis Batch: 705085

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702045

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

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	87.2		30 - 110
Y Carrier	78.5		30 - 110

Lab Sample ID: MB 160-702256/1-A
Matrix: Water
Analysis Batch: 705086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702256

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	<0.571	U	0.296	0.296	1.00	0.571	pCi/L	02/10/25 09:01	02/27/25 12:25	1

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	91.1		30 - 110	02/10/25 09:01	02/27/25 12:25	1
Y Carrier	84.5		30 - 110	02/10/25 09:01	02/27/25 12:25	1

Lab Sample ID: LCS 160-702256/2-A
Matrix: Water
Analysis Batch: 705086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702256

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


Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	90.6		30 - 110
Y Carrier	79.3		30 - 110

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 Kaelyn Sperle		Lab PM Mockler, Diana J		Carrier Tracking No(s)		COC No. 500-132935-44027 1			
Client Contact Mitchel DeLeon Kaelyn Sperle		Phone 262-278-1621		E-Mail Diana.Mockler@et.eurofins.com		State of Origin IL		Page Page 1 of 1			
Company KPRG and Associates, Inc.		PWSID		Analysis Requested				Job # 500-263479			
Address 14665 West Lisbon Road, Suite 1A		Due Date Requested Standard		<small>FRIG. Filtered Samples (Yes or No)</small> <small>Perform (MS/MS) (Yes or No)</small> 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_Cl_E, SM4500_S04_E				Preservation Codes. D - HNO3 N - None			
City Brookfield		TAT Requested (days) Standard						 500-263479 COC		<input type="checkbox"/> Compliance Project. <input type="checkbox"/> Yes <input type="checkbox"/> No	
State, Zip WI, 53005		PO # 4502188389									
Phone 262-781-0475(Tel)		WO #									
Email mitchel@kprginc.com kaelyns@kprginc.com		Project # 50011597									
Project Name Waukegan CCR Event Desc. Quarterly Waukegan CCR		SSOW#									
Site Illinois											
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Preservation Code	Special Instructions/Note:				
1 MW-01	2/3/25	1150	G	Water	N	N	X	X	X		
2 MW-02	2/3/25	1253	↓	Water	↓	↓	↓	↓	↓		
3 MW-03	2/3/25	1428	↓	Water	↓	↓	↓	↓	↓		
MW-04				Water							
MW-09				Water							
MW-11				Water							
MW-14				Water							
4 MW-16	2/3/25	1556	G	Water	N	N	X	X	X		
5 Duplicate	2/3/25	-	↓	Water	↓	↓	↓	↓	↓		
				Water							
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements						
Empty Kit Relinquished by		Date		Time		Method of Shipment.					
Relinquished by <i>Kaelyn Ornela</i>		Date/Time 2/3/25/1715		Company KPRG		Received by FedEx		Date/Time 2/3/25/1715		Company FedEx	
Relinquished by		Date/Time		Company		Received by <i>Stephanie Hernandez</i>		Date/Time 2/4/25 0910		Company FEIA	
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 4.1 → 4.0							

Eurofins Chicago

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

Chain of Custody Record

Client Information		Sampler: Kaelyn Sperle		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-132935-44027 1		
Client Contact: Mitchel DeLan - Kaelyn Sperle		Phone: 262-278-1621		E-Mail: Diana.Mockler@et.eurofinsus.com		State of Origin: IL		Page: Page 1 of 1		
Company: KPRG and Associates, Inc.				Analysis Requested		Job #: 500-263479		Preservation Codes: D - HNO3 N - None		
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested: Standard		TAT Requested (days): Standard		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		PO #: 4502188389		
City: Brookfield		State, Zip: WI, 53005		Phone: 262-781-0475(Tel)		Email: kaelyns@kprginc.com		Project Name: Waukegan CCR Event Desc. Quarterly Waukegan CCR		
Project Name: Waukegan CCR Event Desc. Quarterly Waukegan CCR		Site: Illinois		Project #: 50011597		SSOW#:		Special Instructions/Note:		
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)		Total Number of Containers		
						Perform MS/MSD (Yes or No)		Other:		
						903.0, 904.0		Special Instructions/Note:		
						6010C, 6020A, 7470A				
						2540C, 4500_F_C, SM4500_CLE, SM4500_S04_E				
						D D N				
MW-01					Water					
MW-02					Water					
MW-03					Water					
MW-04					Water					
6 MW-09		2/4/25	1318	G	Water	N	N	X	X	
7 MW-11		2/4/25	1035	↓	Water	N	N	↓	↓	
8 MW-14		2/4/25	1154	↓	Water	N	N	↓	↓	
MW-16					Water					
Duplicate					Water					
Duplicate					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: Kaelyn Orule		Date/Time: 2/4/25/1645		Company: KPRG		Received by: FedEx		Date/Time: 2/4/25/1645		Company: FedEx
Relinquished by:		Date/Time:		Company:		Received by: The Lock		Date/Time: 2/5/25 0910		Company: ERTH
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		21-20				

Eurofins Chicago

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

Chain of Custody Record

Client Information		Sampler: <u>Kaelyn Sperle</u>	Lab PM: <u>Mockler, Diana J</u>	Carrier Tracking No(s)	COC No: <u>500-132935-44027 1</u>	
Client Contact: <u>Mitchel Dolan - Kaelyn Sperle</u>		Phone: <u>262-278-1621</u>	E-Mail: <u>Diana.Mockler@et.eurofinsus.com</u>	State of Origin: <u>IL</u>	Page: <u>Page 1 of 1</u>	
Company: <u>KPRG and Associates, Inc</u>		PWSID:	Analysis Requested		Job #: <u>500-263479</u>	
Address: <u>14665 West Lisbon Road, Suite 1A</u>		Due Date Requested: <u>Standard</u>	Field Filtered Sample (Yes or No) _____ Perform MS/MS (Yes or No) _____ 903.0, 904.0 _____ 6010C, 6020A, 7470A _____ 2540C, 4500_F_C, SM4500_SO4_E _____		Preservation Codes: <u>D HNO3 N None</u>	
City: <u>Brookfield</u>		TAT Requested (days): <u>Standard</u>			Other:	
State/Zip: <u>WI, 53005</u>		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Phone: <u>262-781-0475(Tel)</u>		PO #: <u>4502188389</u>				
Email: <u>mitcheld@kprginc.com</u>		WO #: _____				
Project Name: <u>Waukegan CCR Event Desc Quarterly Waukegan CCR</u>		Project #: <u>50011597</u>	Total Number of Containers: _____			
Site: <u>Illinois</u>		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)	Special Instructions/Note:
9 MW-04		2/5/25	1216	G	Water	N N X X X 5
MW-09					Water	
MW-11					Water	
MW-14					Water	
MW-16					Water	
Duplicate					Water	
Duplicate					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>Kaelyn Sperle</u>		Date/Time: <u>2/5/25/1700</u>	Company: <u>KPRG</u>	Received by: <u>FedEx</u>		Date/Time: <u>2/5/25/1700</u>
Relinquished by:		Date/Time:	Company:	Received by: <u>[Signature]</u>		Date/Time: <u>2/6/25 0905</u>
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <u>0.2 -> 0.1</u>		



KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 25 00 LB MAN
CAD: 0780307/CAFE3855

Part # 159469-434 MTRW EXP 09/25



500-263479 Waybi

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

(708) 634-6200

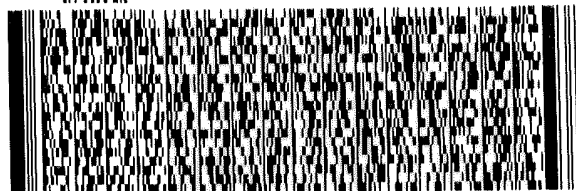
REF:

INU:

DEPT

PO:

RMA. III III III III



FedEx
Express



AN 10P0L0P20327

FedEx

TRK# 4376 0568 1842
0221

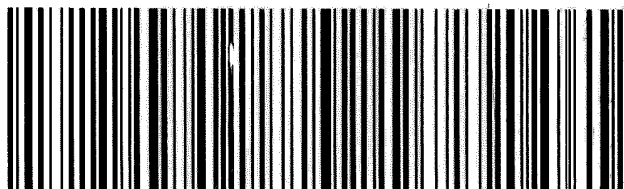
TUE - 04 FEB 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484

IL - US **ORD**

Part # 156297-435 BRNDE EXP 09/25



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KAELYN SPERLE
KPRG AND ASSOCIATES, INC
14665 WEST LIBSON ROAD
SUITE 1A
BROOKFIELD, WI 53005
UNITED STATES US

ACTWGT: 25 00 LB MAN
CAD: 0780307/CAFE3855

Part 159468-454 WTMV EXP 09/25
SRK12/FF17/FF20

TO: **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

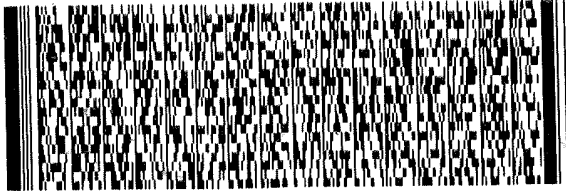
UNIVERSITY PARK IL 60484

(708) 634-6200
INU:
PO:

REF:

DEPT:

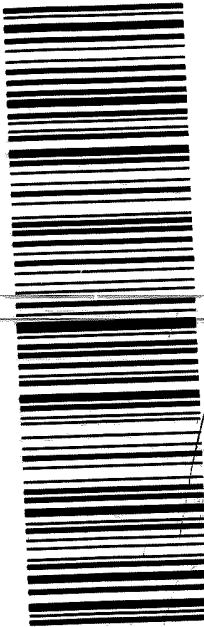
RMA. ||| |||||



FedEx
Express



4010P04342463E27



439588 02/04 SRK12/FF17/FF20

79 JOTA

FedEx
TRK #
0221
4376 0568 1809

WED - 05 FEB 10:30A
PRIORITY OVERNIGHT

IL-US
60484
ORD

10297-435 SRK12/FF17/FF20 EXP 09/25



500-263479 Waybi

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500-263479 Waybi

KAEALYN SPERLE
 KPRG AND ASSOCIATES, INC
 14665 WEST LIBSON ROAD
 SUITE 1A
 BROOKFIELD, WI 53005
 UNITED STATES US

ACTWGT: 25.00 LB MAN
 CAD: 0780307/LAFE3855

Part # 159489-434 M/TW EXP 09/25

TO **SAMPLE RECEIPT**
EUROFINS CHICAGO
2417 BOND ST.

UNIVERSITY PARK IL 60484

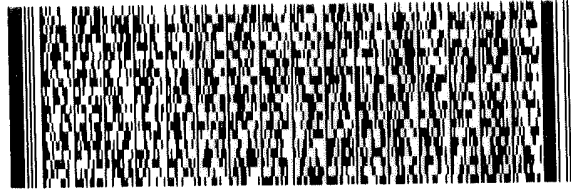
(708) 534-5200

REF:

NU:
 PO:

DEPT:

RMA



FedEx
 Express



J2438324870101 v

FedEx

TRK# 4376 0568 1794
 0221

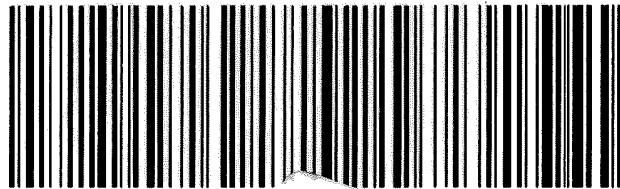
THU - 06 FEB 10:30A
PRIORITY OVERNIGHT

#16697-435-31101 EXP 09/25

79 JOTA

60484

IL - US **ORD**



PC504410 02105 000

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Mockler, Diana J	Carrier Tracking No(s): N/A	COC No: 500-198020.1
Shipping/Receiving		Phone: N/A	E-Mail: Diana.Mockler@eurofins.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-263479-2	
Address: 13715 Rider Trail North,		Due Date Requested: 2/18/2025		Preservation Codes:	
City: Earth City		TAT Requested (days): N/A		Analysis Requested:	
State, Zip: MO, 63045		PO #: N/A		903.0/PreSep_21 Standard Target List	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #: N/A		904.0/PreSep_0 Standard Target List	
Email: N/A		Project #: 50011597		Form MS/MSD (Yes or No)	
Project Name: Waukegan CCR (RAD)		SSOW#: N/A		Field Filtered Sample (Yes or No)	
Site: NRG Midwest Generation Waukegan		Sample Date		Sample Time	
Sample Identification - Client ID (Lab ID)		Sample Type (C=comp, G=grab)		Matrix (Water, Solid, Other)	
MW-09 (500-263479-6)		2/4/25		13:18 Central	
MW-11 (500-263479-7)		2/4/25		10:35 Central	
MW-14 (500-263479-8)		2/4/25		11:54 Central	
Special Instructions/Note:		Total Number of Containers		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	
3		3		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	
3		3		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	
3		3		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume.	
Other: N/A		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/ests/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		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2		Special Instructions/QC Requirements:		Method of Shipment:	
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: <i>[Signature]</i>		Date/Time: 2/15/25 1430		Company: Company	
Relinquished by: <i>[Signature]</i>		Date/Time: 02/20/25 08:30		Company: Eurofins	
Relinquished by: <i>[Signature]</i>		Date/Time: 02/20/25 08:30		Company: Eurofins	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler:	Lab PM	Carrier Tracking No(s)	COC No.						
Client Contact: Shipping/Receiving		N/A	Mockler, Diana J	N/A	500-197961.1						
Company: TestAmerica Laboratories, Inc.		N/A	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 #:	500-263479-2						
City: Earth City	State, Zip: MO, 63045	Due Date Requested: 3/6/2025	Preservation Codes:								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #: N/A	TAT Requested (days):	Analysis Requested:								
Email: N/A	WO #: N/A		Total Number of Containers								
Project Name: Waukegan CCR (RAD)	Project #: 50011597		Other: N/A								
Site: NRG Midwest Generation Waukegan	SSOW#: N/A		Special Instructions/Note:								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra226Ra228_GFPc	Batch QC	Special Instructions/Note
MW-01 (500-263479-1)	2/3/25	11:50	G	Water		X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-02 (500-263479-2)	2/3/25	12:53	G	Water		X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-03 (500-263479-3)	2/3/25	14:28	G	Water		X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
MW-16 (500-263479-4)	2/3/25	15:56	G	Water		X	X	X		3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.
Duplicate (500-263479-5)	2/3/25	Central	G	Water		X	X	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

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

Special Instructions/QC Requirements:

Relinquished by: *Alie* Date: *2/14/25* Time: _____
 Relinquished by: *Alie* Date: *1/5/25* Time: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No _____
 Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-263479-2

Login Number: 263479

List Source: Eurofins Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0,2.0,-0.1 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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-263479-2

Login Number: 263479

List Number: 2

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 02/05/25 11:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-263479-2

Login Number: 263479

List Number: 3

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 02/06/25 12:31 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-263479-2

Login Number: 263479

List Number: 4

Creator: Forrest, Cheyenne L

List Source: Eurofins St. Louis

List Creation: 02/07/25 01:39 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
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	

This receipt checklist is generated for all samples received in this Login. It may not be applicable to all Jobs associated with this Login.



Lab Chronicle

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

Job ID: 500-263479-2

Client Sample ID: MW-01

Date Collected: 02/03/25 11:50

Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701729	OGC	EET SL	02/06/25 08:00
Total/NA	Analysis	903.0		1	705324	SWS	EET SL	02/28/25 09:25
Total/NA	Prep	PrecSep_0			701730	OGC	EET SL	02/06/25 08:04
Total/NA	Analysis	904.0		1	703041	SWS	EET SL	02/14/25 11:59
Total/NA	Analysis	Ra226_Ra228		1	705698	SCB	EET SL	03/03/25 12:21

Client Sample ID: MW-02

Date Collected: 02/03/25 12:53

Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701729	OGC	EET SL	02/06/25 08:00
Total/NA	Analysis	903.0		1	705324	SWS	EET SL	02/28/25 09:25
Total/NA	Prep	PrecSep_0			701730	OGC	EET SL	02/06/25 08:04
Total/NA	Analysis	904.0		1	703041	SWS	EET SL	02/14/25 11:59
Total/NA	Analysis	Ra226_Ra228		1	705698	SCB	EET SL	03/03/25 12:21

Client Sample ID: MW-03

Date Collected: 02/03/25 14:28

Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701729	OGC	EET SL	02/06/25 08:00
Total/NA	Analysis	903.0		1	705324	SWS	EET SL	02/28/25 09:26
Total/NA	Prep	PrecSep_0			701730	OGC	EET SL	02/06/25 08:04
Total/NA	Analysis	904.0		1	703041	SWS	EET SL	02/14/25 11:59
Total/NA	Analysis	Ra226_Ra228		1	705698	SCB	EET SL	03/03/25 12:21

Client Sample ID: MW-16

Date Collected: 02/03/25 15:56

Date Received: 02/04/25 09:20

Lab Sample ID: 500-263479-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701729	OGC	EET SL	02/06/25 08:00
Total/NA	Analysis	903.0		1	705324	SWS	EET SL	02/28/25 09:26
Total/NA	Prep	PrecSep_0			701730	OGC	EET SL	02/06/25 08:04
Total/NA	Analysis	904.0		1	703041	SWS	EET SL	02/14/25 11:59
Total/NA	Analysis	Ra226_Ra228		1	705698	SCB	EET SL	03/03/25 12:21

Lab Chronicle

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

Job ID: 500-263479-2

Client Sample ID: Duplicate

Lab Sample ID: 500-263479-5

Date Collected: 02/03/25 00:00

Matrix: Water

Date Received: 02/04/25 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			701729	OGC	EET SL	02/06/25 08:00
Total/NA	Analysis	903.0		1	705324	SWS	EET SL	02/28/25 09:26
Total/NA	Prep	PrecSep_0			701730	OGC	EET SL	02/06/25 08:04
Total/NA	Analysis	904.0		1	703041	SWS	EET SL	02/14/25 11:59
Total/NA	Analysis	Ra226_Ra228		1	705698	SCB	EET SL	03/03/25 12:21

Client Sample ID: MW-09

Lab Sample ID: 500-263479-6

Date Collected: 02/04/25 13:18

Matrix: Water

Date Received: 02/05/25 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			702044	OGC	EET SL	02/07/25 07:47
Total/NA	Analysis	903.0		1	705675	SWS	EET SL	03/03/25 09:50
Total/NA	Prep	PrecSep_0			702045	OGC	EET SL	02/07/25 07:56
Total/NA	Analysis	904.0		1	705085	SWS	EET SL	02/27/25 12:29
Total/NA	Analysis	Ra226_Ra228		1	706011	SCB	EET SL	03/04/25 16:48

Client Sample ID: MW-11

Lab Sample ID: 500-263479-7

Date Collected: 02/04/25 10:35

Matrix: Water

Date Received: 02/05/25 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			702044	OGC	EET SL	02/07/25 07:47
Total/NA	Analysis	903.0		1	705675	SWS	EET SL	03/03/25 09:50
Total/NA	Prep	PrecSep_0			702045	OGC	EET SL	02/07/25 07:56
Total/NA	Analysis	904.0		1	705085	SWS	EET SL	02/27/25 12:29
Total/NA	Analysis	Ra226_Ra228		1	706011	SCB	EET SL	03/04/25 16:48

Client Sample ID: MW-14

Lab Sample ID: 500-263479-8

Date Collected: 02/04/25 11:54

Matrix: Water

Date Received: 02/05/25 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			702044	OGC	EET SL	02/07/25 07:47
Total/NA	Analysis	903.0		1	705677	SWS	EET SL	03/03/25 09:59
Total/NA	Prep	PrecSep_0			702045	OGC	EET SL	02/07/25 07:56
Total/NA	Analysis	904.0		1	705085	SWS	EET SL	02/27/25 12:29
Total/NA	Analysis	Ra226_Ra228		1	706011	SCB	EET SL	03/04/25 16:48

Lab Chronicle

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

Job ID: 500-263479-2

Client Sample ID: MW-04
Date Collected: 02/05/25 12:16
Date Received: 02/06/25 09:05

Lab Sample ID: 500-263479-9
Matrix: Water

<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	Prep	PrecSep-21			702255	OGC	EET SL	02/10/25 08:58
Total/NA	Analysis	903.0		1	705971	CMM	EET SL	03/04/25 07:43
Total/NA	Prep	PrecSep_0			702256	OGC	EET SL	02/10/25 09:01
Total/NA	Analysis	904.0		1	705086	SWS	EET SL	02/27/25 12:26
Total/NA	Analysis	Ra226_Ra228		1	706170	FLC	EET SL	03/05/25 15:04

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 500-263479-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-25

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

Tracer/Carrier Summary

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

Job ID: 500-263479-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-263479-1	MW-01	82.4
500-263479-2	MW-02	83.9
500-263479-3	MW-03	78.6
500-263479-4	MW-16	86.2
500-263479-5	Duplicate	88.5
500-263479-6	MW-09	82.4
500-263479-7	MW-11	92.3
500-263479-8	MW-14	86.0
500-263479-9	MW-04	88.0
LCS 160-701729/2-A	Lab Control Sample	98.7
LCS 160-702044/2-A	Lab Control Sample	87.2
LCS 160-702255/2-A	Lab Control Sample	90.6
MB 160-701729/1-A	Method Blank	95.2
MB 160-702044/1-A	Method Blank	91.3
MB 160-702255/1-A	Method Blank	91.1

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-263479-1	MW-01	82.4	75.5
500-263479-2	MW-02	83.9	75.1
500-263479-3	MW-03	78.6	73.6
500-263479-4	MW-16	86.2	73.3
500-263479-5	Duplicate	88.5	79.3
500-263479-6	MW-09	82.4	77.4
500-263479-7	MW-11	92.3	82.2
500-263479-8	MW-14	86.0	79.3
500-263479-9	MW-04	88.0	80.4
LCS 160-701730/2-A	Lab Control Sample	98.7	81.5
LCS 160-702045/2-A	Lab Control Sample	87.2	78.5
LCS 160-702256/2-A	Lab Control Sample	90.6	79.3
MB 160-701730/1-A	Method Blank	95.2	79.3
MB 160-702045/1-A	Method Blank	91.3	77.4
MB 160-702256/1-A	Method Blank	91.1	84.5

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

PROJECT NAME	12313.2 - NRG Waukegan Station		DATE	2/3/25
Sample Name	MW-01	Start Time	1123	
Condition of Well	good			
Water Level	23.34	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	4.5 gts	WL at Sample Time	23.39	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit, CCR	Sample Time	1150	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1128	23.34	7.27	13.0	.580	4.73	140.1	3.62
1131	-	7.43	12.8	.560	2.44	135.3	3.40
1134	-	7.51	13.0	.549	1.82	132.7	3.88
1137	-	7.60	12.2	.543	1.42	130.4	3.75
1140	-	7.61	10.2	.565	1.40	130.6	6.33
1143	-	7.48	9.3	.578	1.54	136.9	6.53
1146	-	7.49	12.1	.520	1.69	137.0	5.57
1149	23.39	7.67	12.8	.513	1.18	132.0	4.31

had to rehook up turbid. for YSI. blew a w/wire

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	2/3/25
Sample Name	MW-02	Start Time	1227	
Condition of Well	good			
Water Level	23.22	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	8 gts	W L at Sample Time	23.38	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit, CCR	Sample Time	1253	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1228	23.22	7.35	11.3	.587	9.71	117.1	6.61
1231	—	7.54	12.3	.546	4.93	114.5	5.84
1234	—	7.77	12.4	.543	3.34	110.6	4.20
1237	—	7.88	12.5	.545	2.35	107.0	3.51
1240	—	7.98	12.3	.542	1.81	104.2	3.35
1243	—	8.04	12.2	.544	1.47	101.3	3.70
1246	—	8.08	12.5	.547	1.27	98.7	3.86
1249	23.38	8.12	12.3	.547	1.12	95.0	3.41

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	2/3/25
Sample Name	MW-03	Start Time	1353	
Condition of Well	good			
Water Level	23.68	Total Depth	—	
Well Diameter	PVC – 2 inch	Volume in Well	—	
Method of Purge	Low flow bladder	Purge Characteristics	clear	
Volume Removed	11 qts	WL at Sample Time	23.72	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	permit, CCR	Sample Time	1428	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1354	23.68	8.19	12.0	.597	8.95	108.4	3.44
1357	—	10.04	12.7	.4936	5.07	65.0	4.45
1400	—	10.68	12.7	.4990	3.39	52.6	3.30
1403	—	10.94	12.7	.505	2.41	44.0	2.77
1406	—	11.09	12.7	.514	1.73	34.5	2.81
* 1415	—	9.51	12.1	.538	5.77	78.8	5.13
1418	—	10.83	12.6	.516	2.63	48.3	2.54
1421	—	10.96	12.6	.516	2.04	42.7	2.59
1424	—	11.05	12.3	.518	1.61	37.3	2.46
1427	—	11.08	12.6	.522	1.39	33.8	2.38

SAMPLING NOTES:

CCR duplicate

* paused to check pH reading correctly - checked w/ cal. sol'n pH 7 - 7.14 at 16.1°C
 Sampler Name and Company: KPRG and Associates KWS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	2/5/25
Sample Name	MW-04	Start Time	1150	
Condition of Well	good			
Water Level	23.66	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	sl. cloudy, gray	
Volume Removed	7 gts	WL at Sample Time	23.68	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit, CCR	Sample Time	1216	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1157	23.66	7.99	10.0	.541	11.80	47.0	38.51
1200	-	7.91	12.2	.536	7.29	44.1	39.10
1203	-	8.13	12.4	.533	4.60	31.8	18.45
1206	-	8.18	12.6	.536	-	27.1	13.51
1209	-	8.25	12.6	.543	2.84	16.6	9.67
1212	-	8.27	12.6	.545	2.52	10.7	7.91
1215	23.68	8.30	12.4	.547	2.26	3.8	6.70

SAMPLING NOTES:
 - had to throw tubing before sample could be taken

Sampler Name and
 Company:

KPRG and Associates

KAS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	2/4/25
Sample Name	MW-09	Start Time	1252	
Condition of Well	good			
Water Level	11.53	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Sl. cloudy, brown to clear	
Volume Removed	8 gts	WL at Sample Time	11.65	
Method of Sample	Low flow bladder	Sample Characteristics	clear	
Sample Analysis	permit, CCR	Sample Time	1318	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1253	11.53	7.53	11.3	1.028	12.20	95.6	162.17
1256	-	7.20	12.5	.975	6.92	83.5	95.40
1259	-	7.16	12.4	.965	4.72	41.0	29.17
1302	-	7.14	12.3	.964	3.43	-4.5	17.30
1305	-	7.15	12.3	.961	2.76	-34.9	13.27
1308	-	7.15	12.3	.960	2.44	-53.5	10.44
1311	-	7.15	12.4	.955	2.12	-69.9	8.51
1314	-	7.16	12.3	.955	1.88	-81.4	7.97
1317	11.65	7.16	12.2	.957	1.74	-87.3	7.13

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 - NRG Waukegan Station		DATE	2/4/25
Sample Name	MW-11	Start Time	1004	
Condition of Well	good			
Water Level	6.54	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy, orange	
Volume Removed	8 gts	WL at Sample Time	6.59	
Method of Sample	Low flow bladder	Sample Characteristics	cloudy, orange	
Sample Analysis	permit (ELUC), CCR	Sample Time	1035	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1005	6.54	7.28	9.1	.846	8.02	4.5	3693.39
1008	-	7.01	8.6	.855	5.47	-51.0	2719.72
1011	-	6.91	8.6	.857	4.29	-75.6	2074.64*
1017	-	6.87	8.2	.858	4.50	-70.6	1349.98
1020	-	6.90	8.2	.860	3.39	-92.7	1172.45*
1025	-	6.88	8.2	.856	4.23	-59.9	1077.54
1028	-	6.91	8.3	.861	3.01	-97.1	765.32
1031	-	6.94	8.2	.864	2.52	-108.8	521.22
1034	-	6.97	8.2	.863	2.20	-114.6	847.22

SAMPLING NOTES:

* flushed flow thru cell

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	2/4/25
Sample Name	MW-14	Start Time	1123	
Condition of Well	good			
Water Level	6.29	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	cloudy orange to sl. cloudy orange	
Volume Removed	8 qts	WL at Sample Time	6.30	
Method of Sample	Low flow bladder	Sample Characteristics	sl. cloudy, orange	
Sample Analysis	permit (ELUC), CCR	Sample Time	1154	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1126	6.29	7.37	7.9	.567	9.00	78.4	82.82
1129	-	7.27	7.6	.565	6.12	77.7	580.17
1132	-	7.18	7.7	.577	4.34	73.6	307.56
1135	-	7.14	7.6	.592	3.78	66.4	175.53
1138	-	7.09	7.6	.611	3.21	49.4	140.24
1142	-	7.04	7.7	.627	2.72	22.8	71.71
1145	-	7.03	7.7	.637	2.49	6.0	67.78
1148	-	7.01	7.6	.648	2.20	-17.9	192.92
1151	6.30	7.01	7.6	.654	2.11	-26.6	107.49

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	2/3/25
Sample Name	MW-16	Start Time	1532	
Condition of Well	good			
Water Level	29.17	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	sl. cloudy, brown	
Volume Removed	5.5 gts	WL at Sample Time	29.17	
Method of Sample	Low flow bladder	Sample Characteristics	clear w/ brown tint	
Sample Analysis	CCR	Sample Time	1556	
Water Quality Meter	YSI Pro DSS			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
1534	29.17	7.78	12.5	1.163	7.59	56.0	171.90
1537	-	7.48	12.4	1.132	4.49	-22.8	70.35
1540	-	7.30	12.3	1.095	2.98	-65.7	29.05
1543	-	7.18	12.3	1.067	2.20	-78.7	13.82
1546	-	7.14	12.3	1.056	1.78	-83.1	10.49
1549	-	7.12	12.2	1.043	1.58	-84.5	9.17
1552	29.17	7.08	12.3	1.037	1.33	-85.5	7.34

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

KLS