

## 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 4<sup>th</sup> quarter 2024 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 1. Groundwater Analytical Results - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	
MW-09 up-gradient	11/4/2015	13	210	450	0.14	6.40	370	1700	< 0.005	< 0.001	0.015	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.081	< 0.0002	0.260	0.1818	< 0.0025	< 0.002	
	3/2/2016	35	380	720	0.11	7.02	970	2800	< 0.005	0.06	0.043	< 0.0005	< 0.0005	< 0.005	< 0.001	0.094	< 0.0002	0.51	< 0.36	0.025	< 0.002		
	5/5/2016	16	310	620	0.12	7.02	740	2500	< 0.005	0.0014	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.083	< 0.0002	0.63	< 0.512	0.024	< 0.002	
	8/25/2016	4.5	130	270	0.21	7.13	190	1100	< 0.001	0.042	0.024	< 0.001	< 0.0011	0.056	0.0027	0.0012	0.049	< 0.0002	0.063	< 0.002	0.039	< 0.002	
	12/8/2016	15	200	400	0.08	7.01	1300	1900	< 0.005	0.004	0.016	< 0.001	< 0.0003	0.077	< 0.0005	0.077	< 0.0002	0.15	< 0.27	0.038	< 0.002		
	2/23/2017	14	190	290	0.12	7.68	320	1300	< 0.005	0.0027	0.014	< 0.001	< 0.0005	0.059	0.0018	< 0.0005	0.068	< 0.0002	0.26	< 0.461	0.016	< 0.002	
	5/16/2017	27	160	67	0.29	8.15	420	970	< 0.005	< 0.001	0.0094	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.045	< 0.0002	0.51	< 0.342	0.0085	< 0.002	
	7/6/2017	21	220	430	0.13	7.18	610	1800	< 0.005	0.002	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.089	< 0.0002	0.31	< 0.316	0.021	< 0.002	
	9/13/2017	21	250	420	0.14	7.17	520	1800	< 0.005	0.0067	0.019	< 0.001	< 0.0005	0.052	0.0017	< 0.0005	0.089	< 0.0002	0.33	0.344	0.0041	< 0.002	
	11/29/2017	26	200	390	0.13	7.05	390	1600	< 0.005	0.0017	0.015	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.066	< 0.0002	0.47	< 0.625	0.043	< 0.002	
	5/31/2018	32	200	29	0.1	6.85	490	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2018	30	170	23	0.11	7.33	290	930	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/15/2019	26	120	260	0.13	7.53	31	1000	< 0.005	< 0.001	0.0073	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.035	< 0.0002	0.54	< 0.433	< 0.0025	< 0.002	
	11/19/2019	22	160	17	0.16	8.04	300	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/22/2020	22	140	92	0.18	7.81	360	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/18/2020	28	250	290	0.18	7.43	420	1700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/6/2021	31	170	35	0.12	7.51	420	910	< 0.005	< 0.001	0.0075	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.04	< 0.0002	0.47	< 0.614	0.023	< 0.002	
	8/19/2021	7.2	150	170	0.13	7.01	210	350	< 0.005	0.0019	0.015	< 0.001	< 0.0005	< 0.005	^< 0.001	0.015	0.066	< 0.0002	0.12	< 0.457	0.071	^< 0.002	
	11/4/2021	10	150	160	0.24	7.07	180	980	< 0.005	0.0026	0.074	^+< 0.001	< 0.0005	< 0.005	0.0011	< 0.0005	0.06	< 0.0002	0.12	< 0.775	0.097	< 0.002	
	2/10/2022	9.5	190	220	0.17	7.11	270	1300	< 0.005	0.015	0.033	< 0.001	< 0.00076	< 0.005	0.0038	< 0.0005	0.065	< 0.0002	0.21	< 0.523	0.036	< 0.002	
	5/24/2022	5.3	150	180	0.23	7.15	200	940	< 0.005	0.0019	0.02	^< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.054	< 0.0002	0.18	< 0.444	< 0.0025	< 0.002	
	8/23/2022	1.2	170	170	0.22	7.14	290	1100	< 0.005	0.0012	0.046	^+< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.048	< 0.0002	0.21	< 0.487	0.034	< 0.002	
	11/7/2022	6.4	160	200	0.51	6.98	220	1100	< 0.005	0.0083	0.14	^+< 0.001	< 0.0005	< 0.005	0.0013	0.0034	0.057	< 0.0002	0.088	2.58	< 0.0025	< 0.002	
	12/21/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/9/2023	4.7	140	220	0.23	7.08	200	890	< 0.0050	0.0011	0.021	^< 0.001	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.15	< 0.557	< 0.0025	< 0.0020	
8/8/2023	^< 20	270	380	0.23	6.98	510	1800	< 0.0050	0.0021	0.11	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.062	< 0.00020	0.35	0.754	0.022	< 0.0020		
11/28/2023	2.6	96	170	0.33	7.15	130	750	< 0.0050	0.0071	0.061	^+< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.053	< 0.00020	0.049	0.652	< 0.0025	< 0.0020		
2/6/2024	24	240	150	0.18	6.88	460	1300	^+< 0.0050	0.0035	0.12	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	< 0.20	< 0.00020	0.32	1.09	0.070	< 0.0020		
5/21/2024	120	180	120	0.17	7.12	30	860	< 0.0050	0.027	0.13	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.047	< 0.00020	0.074	0.768	< 0.0025	< 0.0020		
8/13/2024	8.5	130	91	0.34	7.08	200	860	< 0.0050	0.0062	0.085	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.045	< 0.00020	0.14	1.10	< 0.0025	< 0.0020		
11/12/2024	2.8	130	170	0.32	7.12	130	870	< 0.0050	0.013	0.11	< 0.0010	< 0.00050	< 0.0050	< 0.0010	< 0.00050	0.047	< 0.00020	0.055	0.92	< 0.0025	< 0.0020		
11/5/2015	5.2	140	240	0.13	6.51	190	1100	< 0.005	0.77	0.039	^< 0.001	< 0.0005	< 0.005	< 0.001	0.001	0.055	< 0.0002	< 0.0050	0.656	< 0.0025	< 0.002		
3/2/2016	4.0	170	240	0.16	7.16	210	1200	< 0.005	0.55	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.049	0.049	< 0.0002	< 0.0050	1.09	< 0.0025	< 0.002		
5/5/2016	1.0	140	280	0.11	7.17	160	1000	< 0.005	0.51	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	0.057	< 0.0002	< 0.005	1.24	< 0.0025	< 0.002			
8/26/2016	3.5	180	240	0.13	6.97	110	1100	< 0.005	1.1	0.05	< 0.001	< 0.0005	< 0.0055	< 0.001	0.0005	0.055	< 0.0002	< 0.005	1.04	< 0.0025	< 0.002		
12/7/2016	3.0	170	270	0.12	7.06	110	1200	< 0.005	0.87	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.038	< 0.0002	< 0.005	1.87	< 0.0025	< 0.002		
2/24/2017	2.4	180	220	0.9	6.61	170	1200	< 0.005	0.58	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	< 0.0005	0.039	< 0.0002	< 0.005	0.982	< 0.0025	< 0.002		
5/18/2017	1.8	160	170	0.13	7.42	130	1000	< 0.005	7.42	0.05	0.047	^< 0.001	< 0.0005	< 0.001	< 0.0005	0.046	< 0.0002	< 0.005	1.31	< 0.0025	< 0.002		
7/6/2017	2.4	160	190	0.14	7.33	130	1100	< 0.005	0.69	0.056	< 0.001	< 0.0005	< 0.0057	< 0.001	< 0.0005	0.041	< 0.0002	< 0.005	0.889	< 0.0025	< 0.002		
9/13/2017	1.9	140	150	0.26	7.16	96	870	< 0.005	0.86	0.036	< 0.001	< 0.0005	< 0.008	< 0.001	0.00071	0.037	< 0.0002	0.054	0.718	< 0.0025	< 0.002		
11/30/2017	2.2	170	200	0.14	6.99	93	1100	< 0.005	0.59	0.05	^< 0.001	< 0.0005	< 0.008	< 0.001	< 0.0005	0.041	< 0.0002	< 0.005	1.21	< 0.0025	< 0.002		
5/31/2018	1.5	210	160	0.1	6.74	130	1100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11/6/2018	2.3	170	150	0.12	7.21	78	990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5/15/2019	3.2	120	31	0.13	7.14	31	1000	< 0.005	0.3	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	0.018	< 0.0002	< 0.005	1.5	< 0.0025	< 0.002			
11/19/2019	4.1	130	200	0.15	7.51	29	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
4/22/2020	3.2	110	150	0.15	7.16	47	740	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
11/19/2020	2.3	140	130	0.2	7.00	28	800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5/6/2021	2.4	130	120	0.15	7.13	45	770	< 0.005	0.44	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	0.038	< 0.0002	&						



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	
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	
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	

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	
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	
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	

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	
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	

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

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

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

Generated 12/6/2024 1:49:49 PM

**JOB DESCRIPTION**

Waukegan CCR

**JOB NUMBER**

500-259939-1

# 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.

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## Authorization



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# Case Narrative

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

Job ID: 500-259939-1

**Job ID: 500-259939-1**

**Eurofins Chicago**

## Job Narrative 500-259939-1

### Receipt

The samples were received on 11/12/24 09:45 and 11/13/24 09:45. 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 -0.6°C, 0.1°C and 3.1°C.

### Metals

Method 6020B - Total Recoverable: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-01 (500-259939-1), MW-02 (500-259939-2), MW-03 (500-259939-3), MW-04 (500-259939-4), MW-09 (500-259939-5), MW-11 (500-259939-6), MW-14 (500-259939-7) and MW-16 (500-259939-8). Elevated reporting limits (RLs) are provided.

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.

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# Method Summary

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

Job ID: 500-259939-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

#### Protocol References:

EPA = US Environmental Protection Agency

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: 500-259939-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-259939-1	MW-01	Water	11/11/24 15:48	11/12/24 09:45
500-259939-2	MW-02	Water	11/11/24 14:21	11/12/24 09:45
500-259939-3	MW-03	Water	11/11/24 12:40	11/12/24 09:45
500-259939-4	MW-04	Water	11/11/24 11:14	11/12/24 09:45
500-259939-5	MW-09	Water	11/12/24 13:59	11/13/24 09:45
500-259939-6	MW-11	Water	11/12/24 10:49	11/13/24 09:45
500-259939-7	MW-14	Water	11/12/24 12:26	11/13/24 09:45
500-259939-8	MW-16	Water	11/12/24 09:20	11/13/24 09:45
500-259939-9	Duplicate	Water	11/12/24 00:00	11/13/24 09:45

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# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: MW-01**  
Date Collected: 11/11/24 15:48  
Date Received: 11/12/24 09:45

**Lab Sample ID: 500-259939-1**  
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		12/04/24 09:38	12/04/24 19:00	1
<b>Arsenic</b>	<b>0.012</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:00	1
<b>Barium</b>	<b>0.053</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:00	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:00	1
<b>Boron</b>	<b>2.4</b>		0.25		mg/L		12/04/24 09:38	12/05/24 14:18	5
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:00	1
<b>Calcium</b>	<b>94</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:00	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:00	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:00	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:00	1
Lithium	<0.010		0.010		mg/L		12/04/24 09:38	12/04/24 19:00	1
<b>Molybdenum</b>	<b>0.025</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:00	1
<b>Selenium</b>	<b>0.0036</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:00	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:00	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>82</b>		10		mg/L			12/03/24 16:08	10
<b>Sulfate (EPA 300.0)</b>	<b>190</b>		10		mg/L			12/03/24 16:08	10
<b>Total Dissolved Solids (SM 2540C)</b>	<b>550</b>		10		mg/L			11/15/24 09:55	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.22</b>		0.10		mg/L			11/27/24 13:56	1

# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: MW-02**  
Date Collected: 11/11/24 14:21  
Date Received: 11/12/24 09:45

**Lab Sample ID: 500-259939-2**  
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		12/04/24 09:38	12/04/24 19:02	1
<b>Arsenic</b>	<b>0.0090</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:02	1
<b>Barium</b>	<b>0.019</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:02	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:02	1
<b>Boron</b>	<b>3.4</b>		0.25		mg/L		12/04/24 09:38	12/05/24 14:22	5
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:02	1
<b>Calcium</b>	<b>62</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:02	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:02	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:02	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:02	1
Lithium	<0.010		0.010		mg/L		12/04/24 09:38	12/04/24 19:02	1
<b>Molybdenum</b>	<b>0.022</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:02	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 19:02	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:02	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:46	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>73</b>		10		mg/L			12/03/24 23:34	10
<b>Sulfate (EPA 300.0)</b>	<b>180</b>		10		mg/L			12/03/24 23:34	10
<b>Total Dissolved Solids (SM 2540C)</b>	<b>490</b>		10		mg/L			11/15/24 09:57	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.39</b>		0.10		mg/L			11/27/24 14:01	1

# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: MW-03**  
**Date Collected: 11/11/24 12:40**  
**Date Received: 11/12/24 09:45**

**Lab Sample ID: 500-259939-3**  
**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		12/04/24 09:38	12/04/24 19:05	1
<b>Arsenic</b>	<b>0.043</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:05	1
<b>Barium</b>	<b>0.0040</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:05	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:05	1
<b>Boron</b>	<b>3.0</b>		0.25		mg/L		12/04/24 09:38	12/05/24 14:26	5
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:05	1
<b>Calcium</b>	<b>28</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:05	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:05	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:05	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:05	1
Lithium	<0.010		0.010		mg/L		12/04/24 09:38	12/04/24 19:05	1
<b>Molybdenum</b>	<b>0.060</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:05	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 19:05	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:05	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>78</b>		10		mg/L			12/03/24 23:50	10
<b>Sulfate (EPA 300.0)</b>	<b>180</b>		10		mg/L			12/03/24 23:50	10
<b>Total Dissolved Solids (SM 2540C)</b>	<b>500</b>		10		mg/L			11/17/24 23:19	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.54</b>		0.10		mg/L			11/27/24 14:06	1

# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: MW-04**  
**Date Collected: 11/11/24 11:14**  
**Date Received: 11/12/24 09:45**

**Lab Sample ID: 500-259939-4**  
**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		12/04/24 09:38	12/04/24 19:07	1
<b>Arsenic</b>	<b>0.011</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:07	1
<b>Barium</b>	<b>0.026</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:07	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:07	1
<b>Boron</b>	<b>2.7</b>		0.25		mg/L		12/04/24 09:38	12/05/24 14:37	5
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:07	1
<b>Calcium</b>	<b>50</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:07	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:07	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:07	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:07	1
Lithium	<0.010		0.010		mg/L		12/04/24 09:38	12/04/24 19:07	1
<b>Molybdenum</b>	<b>0.070</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:07	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 19:07	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:07	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>65</b>		10		mg/L			12/04/24 00:06	10
<b>Sulfate (EPA 300.0)</b>	<b>170</b>		10		mg/L			12/04/24 00:06	10
<b>Total Dissolved Solids (SM 2540C)</b>	<b>410</b>		10		mg/L			11/17/24 23:21	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.41</b>		0.10		mg/L			11/27/24 14:12	1



# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: MW-09**

**Lab Sample ID: 500-259939-5**

Date Collected: 11/12/24 13:59

Matrix: Water

Date Received: 11/13/24 09:45

**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		12/04/24 09:38	12/04/24 19:09	1
<b>Arsenic</b>	<b>0.013</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:09	1
<b>Barium</b>	<b>0.11</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:09	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:09	1
<b>Boron</b>	<b>2.8</b>		0.25		mg/L		12/04/24 09:38	12/05/24 14:41	5
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:09	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:09	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:09	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:09	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:09	1
<b>Lithium</b>	<b>0.047</b>		0.010		mg/L		12/04/24 09:38	12/04/24 19:09	1
<b>Molybdenum</b>	<b>0.055</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:09	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 19:09	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:09	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:52	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>170</b>		10		mg/L			12/04/24 00:21	10
<b>Sulfate (EPA 300.0)</b>	<b>130</b>		10		mg/L			12/04/24 00:21	10
<b>Total Dissolved Solids (SM 2540C)</b>	<b>870</b>		10		mg/L			11/17/24 23:24	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.32</b>		0.10		mg/L			11/27/24 14:31	1

# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: MW-11**  
**Date Collected: 11/12/24 10:49**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-6**  
**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		12/04/24 09:38	12/04/24 19:17	1
<b>Arsenic</b>	<b>0.41</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:17	1
<b>Barium</b>	<b>0.029</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:17	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:17	1
<b>Boron</b>	<b>1.7</b>		0.25		mg/L		12/04/24 09:38	12/05/24 14:45	5
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:17	1
<b>Calcium</b>	<b>100</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:17	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:17	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:17	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:17	1
<b>Lithium</b>	<b>0.031</b>		0.010		mg/L		12/04/24 09:38	12/04/24 19:17	1
<b>Molybdenum</b>	<b>0.0081</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:17	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 19:17	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:17	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:54	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>110</b>		5.0		mg/L			12/04/24 00:37	5
<b>Sulfate (EPA 300.0)</b>	<b>37</b>		5.0		mg/L			12/04/24 00:37	5
<b>Total Dissolved Solids (SM 2540C)</b>	<b>630</b>		10		mg/L			11/17/24 23:26	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.17</b>		0.10		mg/L			11/27/24 14:35	1

# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: MW-14**  
**Date Collected: 11/12/24 12:26**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-7**  
**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		12/04/24 09:38	12/04/24 19:19	1
<b>Arsenic</b>	<b>6.6</b>		0.0050		mg/L		12/04/24 09:38	12/05/24 14:49	5
<b>Barium</b>	<b>0.081</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:19	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:19	1
<b>Boron</b>	<b>0.54</b>		0.25		mg/L		12/04/24 09:38	12/05/24 14:49	5
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:19	1
<b>Calcium</b>	<b>130</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:19	1
<b>Chromium</b>	<b>0.66</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:19	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:19	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:19	1
<b>Lithium</b>	<b>0.014</b>		0.010		mg/L		12/04/24 09:38	12/04/24 19:19	1
Molybdenum	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:19	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 19:19	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:19	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:56	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>25</b>		1.0		mg/L			12/04/24 01:24	1
<b>Sulfate (EPA 300.0)</b>	<b>5.9</b>		1.0		mg/L			12/04/24 01:24	1
<b>Total Dissolved Solids (SM 2540C)</b>	<b>550</b>		10		mg/L			11/17/24 23:29	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.14</b>		0.10		mg/L			11/27/24 14:39	1

# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: MW-16**

**Lab Sample ID: 500-259939-8**

Date Collected: 11/12/24 09:20

Matrix: Water

Date Received: 11/13/24 09:45

**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		12/04/24 09:38	12/04/24 19:21	1
<b>Arsenic</b>	<b>0.0018</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:21	1
<b>Barium</b>	<b>0.057</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:21	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:21	1
<b>Boron</b>	<b>4.1</b>		0.25		mg/L		12/04/24 09:38	12/05/24 14:53	5
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:21	1
<b>Calcium</b>	<b>220</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:21	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:21	1
<b>Cobalt</b>	<b>0.0021</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:21	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:21	1
<b>Lithium</b>	<b>0.019</b>		0.010		mg/L		12/04/24 09:38	12/04/24 19:21	1
<b>Molybdenum</b>	<b>0.016</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:21	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 19:21	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:21	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>48</b>		20		mg/L			12/04/24 01:39	20
<b>Sulfate (EPA 300.0)</b>	<b>450</b>		20		mg/L			12/04/24 01:39	20
<b>Total Dissolved Solids (SM 2540C)</b>	<b>1200</b>		10		mg/L			11/17/24 23:31	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.39</b>		0.10		mg/L			11/27/24 14:54	1

# Client Sample Results

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

Job ID: 500-259939-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-259939-9**

Date Collected: 11/12/24 00:00

Matrix: Water

Date Received: 11/13/24 09:45

**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		12/04/24 09:38	12/04/24 19:24	1
<b>Arsenic</b>	<b>0.36</b>		0.0010		mg/L		12/04/24 09:38	12/04/24 19:24	1
<b>Barium</b>	<b>0.027</b>		0.0025		mg/L		12/04/24 09:38	12/04/24 19:24	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:24	1
<b>Boron</b>	<b>1.6</b>		0.050		mg/L		12/04/24 09:38	12/05/24 14:56	1
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:24	1
<b>Calcium</b>	<b>99</b>		0.20		mg/L		12/04/24 09:38	12/04/24 19:24	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 19:24	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 19:24	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 19:24	1
<b>Lithium</b>	<b>0.028</b>		0.010		mg/L		12/04/24 09:38	12/04/24 19:24	1
<b>Molybdenum</b>	<b>0.0075</b>		0.0050		mg/L		12/04/24 09:38	12/04/24 19:24	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 19:24	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 19:24	1

**Method: SW846 7470A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 10:01	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride (EPA 300.0)</b>	<b>110</b>		10		mg/L			12/04/24 01:55	10
<b>Sulfate (EPA 300.0)</b>	<b>37</b>		10		mg/L			12/04/24 01:55	10
<b>Total Dissolved Solids (SM 2540C)</b>	<b>620</b>		10		mg/L			11/17/24 23:34	1
<b>Fluoride (SM 4500 F C)</b>	<b>0.18</b>		0.10		mg/L			11/27/24 15:08	1

# Definitions/Glossary

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

Job ID: 500-259939-1

## Glossary

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

# QC Association Summary

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

Job ID: 500-259939-1

## Metals

### Prep Batch: 797976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total Recoverable	Water	3005A	
500-259939-2	MW-02	Total Recoverable	Water	3005A	
500-259939-3	MW-03	Total Recoverable	Water	3005A	
500-259939-4	MW-04	Total Recoverable	Water	3005A	
500-259939-5	MW-09	Total Recoverable	Water	3005A	
500-259939-6	MW-11	Total Recoverable	Water	3005A	
500-259939-7	MW-14	Total Recoverable	Water	3005A	
500-259939-8	MW-16	Total Recoverable	Water	3005A	
500-259939-9	Duplicate	Total Recoverable	Water	3005A	
MB 500-797976/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-797976/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

### Prep Batch: 798014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total/NA	Water	7470A	
500-259939-2	MW-02	Total/NA	Water	7470A	
500-259939-3	MW-03	Total/NA	Water	7470A	
500-259939-4	MW-04	Total/NA	Water	7470A	
500-259939-5	MW-09	Total/NA	Water	7470A	
500-259939-6	MW-11	Total/NA	Water	7470A	
500-259939-7	MW-14	Total/NA	Water	7470A	
500-259939-8	MW-16	Total/NA	Water	7470A	
500-259939-9	Duplicate	Total/NA	Water	7470A	
MB 500-798014/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-798014/13-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 500-798014/29-A	Lab Control Sample Dup	Total/NA	Water	7470A	

### Analysis Batch: 798135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total Recoverable	Water	6020B	797976
500-259939-2	MW-02	Total Recoverable	Water	6020B	797976
500-259939-3	MW-03	Total Recoverable	Water	6020B	797976
500-259939-4	MW-04	Total Recoverable	Water	6020B	797976
500-259939-5	MW-09	Total Recoverable	Water	6020B	797976
500-259939-6	MW-11	Total Recoverable	Water	6020B	797976
500-259939-7	MW-14	Total Recoverable	Water	6020B	797976
500-259939-8	MW-16	Total Recoverable	Water	6020B	797976
500-259939-9	Duplicate	Total Recoverable	Water	6020B	797976
MB 500-797976/1-A	Method Blank	Total Recoverable	Water	6020B	797976
LCS 500-797976/2-A	Lab Control Sample	Total Recoverable	Water	6020B	797976

### Analysis Batch: 798220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total/NA	Water	7470A	798014
500-259939-2	MW-02	Total/NA	Water	7470A	798014
500-259939-3	MW-03	Total/NA	Water	7470A	798014
500-259939-4	MW-04	Total/NA	Water	7470A	798014
500-259939-5	MW-09	Total/NA	Water	7470A	798014
500-259939-6	MW-11	Total/NA	Water	7470A	798014
500-259939-7	MW-14	Total/NA	Water	7470A	798014
500-259939-8	MW-16	Total/NA	Water	7470A	798014

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# QC Association Summary

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

Job ID: 500-259939-1

## Metals (Continued)

### Analysis Batch: 798220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-9	Duplicate	Total/NA	Water	7470A	798014
MB 500-798014/12-A	Method Blank	Total/NA	Water	7470A	798014
LCS 500-798014/13-A	Lab Control Sample	Total/NA	Water	7470A	798014
LCSD 500-798014/29-A	Lab Control Sample Dup	Total/NA	Water	7470A	798014

### Analysis Batch: 798345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total Recoverable	Water	6020B	797976
500-259939-2	MW-02	Total Recoverable	Water	6020B	797976
500-259939-3	MW-03	Total Recoverable	Water	6020B	797976
500-259939-4	MW-04	Total Recoverable	Water	6020B	797976
500-259939-5	MW-09	Total Recoverable	Water	6020B	797976
500-259939-6	MW-11	Total Recoverable	Water	6020B	797976
500-259939-7	MW-14	Total Recoverable	Water	6020B	797976
500-259939-8	MW-16	Total Recoverable	Water	6020B	797976
500-259939-9	Duplicate	Total Recoverable	Water	6020B	797976
MB 500-797976/1-A	Method Blank	Total Recoverable	Water	6020B	797976
LCS 500-797976/2-A	Lab Control Sample	Total Recoverable	Water	6020B	797976

## General Chemistry

### Analysis Batch: 795525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total/NA	Water	SM 2540C	
500-259939-2	MW-02	Total/NA	Water	SM 2540C	
MB 500-795525/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-795525/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 795735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-3	MW-03	Total/NA	Water	SM 2540C	
500-259939-4	MW-04	Total/NA	Water	SM 2540C	
500-259939-5	MW-09	Total/NA	Water	SM 2540C	
500-259939-6	MW-11	Total/NA	Water	SM 2540C	
500-259939-7	MW-14	Total/NA	Water	SM 2540C	
500-259939-8	MW-16	Total/NA	Water	SM 2540C	
500-259939-9	Duplicate	Total/NA	Water	SM 2540C	
MB 500-795735/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-795735/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 797536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total/NA	Water	SM 4500 F C	
500-259939-2	MW-02	Total/NA	Water	SM 4500 F C	
500-259939-3	MW-03	Total/NA	Water	SM 4500 F C	
500-259939-4	MW-04	Total/NA	Water	SM 4500 F C	
500-259939-5	MW-09	Total/NA	Water	SM 4500 F C	
500-259939-6	MW-11	Total/NA	Water	SM 4500 F C	
500-259939-7	MW-14	Total/NA	Water	SM 4500 F C	
500-259939-8	MW-16	Total/NA	Water	SM 4500 F C	
500-259939-9	Duplicate	Total/NA	Water	SM 4500 F C	

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# QC Association Summary

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

Job ID: 500-259939-1

## General Chemistry (Continued)

### Analysis Batch: 797536 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-797536/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-797536/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-797536/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-797536/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-259939-8 MS	MW-16	Total/NA	Water	SM 4500 F C	
500-259939-8 MSD	MW-16	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 797813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total/NA	Water	300.0	
MB 500-797813/3	Method Blank	Total/NA	Water	300.0	
LCS 500-797813/4	Lab Control Sample	Total/NA	Water	300.0	

### Analysis Batch: 797827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-2	MW-02	Total/NA	Water	300.0	
500-259939-3	MW-03	Total/NA	Water	300.0	
500-259939-4	MW-04	Total/NA	Water	300.0	
500-259939-5	MW-09	Total/NA	Water	300.0	
500-259939-6	MW-11	Total/NA	Water	300.0	
500-259939-7	MW-14	Total/NA	Water	300.0	
500-259939-8	MW-16	Total/NA	Water	300.0	
500-259939-9	Duplicate	Total/NA	Water	300.0	
MB 500-797827/3	Method Blank	Total/NA	Water	300.0	
LCS 500-797827/4	Lab Control Sample	Total/NA	Water	300.0	

# QC Sample Results

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

Job ID: 500-259939-1

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

**Lab Sample ID: MB 500-797976/1-A**  
**Matrix: Water**  
**Analysis Batch: 798135**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 797976**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		12/04/24 09:38	12/04/24 18:27	1
Arsenic	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 18:27	1
Barium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 18:27	1
Beryllium	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 18:27	1
Cadmium	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 18:27	1
Calcium	<0.20		0.20		mg/L		12/04/24 09:38	12/04/24 18:27	1
Chromium	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 18:27	1
Cobalt	<0.0010		0.0010		mg/L		12/04/24 09:38	12/04/24 18:27	1
Lead	<0.00050		0.00050		mg/L		12/04/24 09:38	12/04/24 18:27	1
Lithium	<0.010		0.010		mg/L		12/04/24 09:38	12/04/24 18:27	1
Molybdenum	<0.0050		0.0050		mg/L		12/04/24 09:38	12/04/24 18:27	1
Selenium	<0.0025		0.0025		mg/L		12/04/24 09:38	12/04/24 18:27	1
Thallium	<0.0020		0.0020		mg/L		12/04/24 09:38	12/04/24 18:27	1

**Lab Sample ID: MB 500-797976/1-A**  
**Matrix: Water**  
**Analysis Batch: 798345**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 797976**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		12/04/24 09:38	12/05/24 13:51	1

**Lab Sample ID: LCS 500-797976/2-A**  
**Matrix: Water**  
**Analysis Batch: 798135**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 797976**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0948		mg/L		95	80 - 120
Barium	0.500	0.489		mg/L		98	80 - 120
Beryllium	0.0500	0.0485		mg/L		97	80 - 120
Cadmium	0.0500	0.0496		mg/L		99	80 - 120
Calcium	10.0	8.90		mg/L		89	80 - 120
Chromium	0.200	0.197		mg/L		99	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.100	0.0954		mg/L		95	80 - 120
Lithium	0.100	0.0987		mg/L		99	80 - 120
Molybdenum	1.00	0.971		mg/L		97	80 - 120
Selenium	0.100	0.0963		mg/L		96	80 - 120
Thallium	0.100	0.0984		mg/L		98	80 - 120

**Lab Sample ID: LCS 500-797976/2-A**  
**Matrix: Water**  
**Analysis Batch: 798345**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 797976**

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: 500-259939-1

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-798014/12-A**  
**Matrix: Water**  
**Analysis Batch: 798220**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 798014**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/04/24 11:20	12/05/24 09:25	1

**Lab Sample ID: LCS 500-798014/13-A**  
**Matrix: Water**  
**Analysis Batch: 798220**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 798014**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00199		mg/L		100	80 - 120

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 500-797813/3**  
**Matrix: Water**  
**Analysis Batch: 797813**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			12/03/24 14:18	1
Sulfate	<1.0		1.0		mg/L			12/03/24 14:18	1

**Lab Sample ID: LCS 500-797813/4**  
**Matrix: Water**  
**Analysis Batch: 797813**

**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	18.2		mg/L		91	90 - 110
Sulfate	20.0	20.7		mg/L		103	90 - 110

**Lab Sample ID: MB 500-797827/3**  
**Matrix: Water**  
**Analysis Batch: 797827**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0		mg/L			12/03/24 22:16	1
Sulfate	<1.0		1.0		mg/L			12/03/24 22:16	1

**Lab Sample ID: LCS 500-797827/4**  
**Matrix: Water**  
**Analysis Batch: 797827**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.2		mg/L		101	90 - 110
Sulfate	20.0	21.1		mg/L		106	90 - 110

# QC Sample Results

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

Job ID: 500-259939-1

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

**Lab Sample ID: MB 500-795525/1**  
**Matrix: Water**  
**Analysis Batch: 795525**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/15/24 09:01	1

**Lab Sample ID: LCS 500-795525/2**  
**Matrix: Water**  
**Analysis Batch: 795525**

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

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

**Lab Sample ID: MB 500-795735/1**  
**Matrix: Water**  
**Analysis Batch: 795735**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			11/17/24 22:48	1

**Lab Sample ID: LCS 500-795735/2**  
**Matrix: Water**  
**Analysis Batch: 795735**

**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	258		mg/L		103	80 - 120

## Method: SM 4500 F C - Fluoride

**Lab Sample ID: MB 500-797536/3**  
**Matrix: Water**  
**Analysis Batch: 797536**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/27/24 12:28	1

**Lab Sample ID: MB 500-797536/31**  
**Matrix: Water**  
**Analysis Batch: 797536**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/27/24 14:44	1

**Lab Sample ID: LCS 500-797536/32**  
**Matrix: Water**  
**Analysis Batch: 797536**

**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

# QC Sample Results

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

Job ID: 500-259939-1

## Method: SM 4500 F C - Fluoride (Continued)

**Lab Sample ID: LCS 500-797536/4**  
**Matrix: Water**  
**Analysis Batch: 797536**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

**Lab Sample ID: 500-259939-8 MS**  
**Matrix: Water**  
**Analysis Batch: 797536**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.39		5.00	5.45		mg/L		101	75 - 125

**Lab Sample ID: 500-259939-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 797536**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.39		5.00	5.45		mg/L		101	75 - 125	0	20

**Eurofins Chicago**

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

**Chain of Custody Record**

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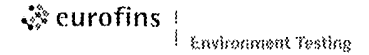
<b>Client Information</b>		Sampler: <i>Jack Misner</i>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No. 500-129747-44027 1								
Client Contact: Mitchel Dolan		Phone: <i>262-622-1143</i>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin: <i>IL</i>		Page: Page 1 of 1								
Company: KPRG and Associates, Inc.		PWSID:		<b>Analysis Requested</b>						Job #: <i>12313.2</i>						
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested:		<table border="1"> <tr><td>903.0, 904.0</td><td>6010C, 6020A, 7470A</td><td>2540C, 4600_F_C, SM4500_CI_E, SM4500_SO4_E</td></tr> </table>						903.0, 904.0	6010C, 6020A, 7470A	2540C, 4600_F_C, SM4500_CI_E, SM4500_SO4_E	TAT Requested (days): <i>Standard</i>		Preservation Codes: D - HNO3 N - None <i>500-259939</i>	
903.0, 904.0	6010C, 6020A, 7470A	2540C, 4600_F_C, SM4500_CI_E, SM4500_SO4_E														
City: Brookfield		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								Other:						
State, Zip: WI, 53005		PO #: 4502161498								Special Instructions/Note:						
Phone: 262-781-0475 (Tel) 500-259939 COC		WO #:														
Email: mitcheld@kprginc.com		Project #: 50011597														
Project Name: Waukegan CCR Event Desc. Quarterly Waukegan CCR		SSOW#:														
Site: Illinois																
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Field Filtered Samples (Yes or No)		Perform MS/MS (Yes or No)		Total Number of Containers		
										D		D		N		
MW-01		<i>11/11/24</i>		<i>1518</i>		<i>G</i>		<i>Water</i>		<i>N</i>		<i>N</i>		<i>X X X</i>		
MW-02		<i>↓</i>		<i>1421</i>		<i>↓</i>		<i>Water</i>		<i>N</i>		<i>N</i>		<i>↓ ↓ ↓</i>		
MW-03		<i>↓</i>		<i>1240</i>		<i>↓</i>		<i>Water</i>		<i>N</i>		<i>N</i>		<i>↓ ↓ ↓</i>		
MW-04		<i>11/11/24</i>		<i>1114</i>		<i>G</i>		<i>Water</i>		<i>N</i>		<i>N</i>		<i>X X X</i>		
<del>MW-09</del>								<i>Water</i>								
<del>MW-11</del>								<i>Water</i>								
<del>MW-14</del>								<i>Water</i>								
<del>MW-16</del>								<i>Water</i>								
<del>Duplicate</del>								<i>Water</i>								
								<i>Water</i>								
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>										
<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>John Wagner</i>		Date/Time: <i>11/11/24 1700</i>		Company: <i>KPRG</i>		Received by: <i>FedEx</i>		Date/Time: <i>11/11/24 1700</i>		Company: <i>FedEx</i>						
Relinquished by:		Date/Time:		Company:		Received by: <i>Shirley Smith</i>		Date/Time: <i>11/21/24 0945</i>		Company: <i>BETA</i>						
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:						
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: <i>0.4 → 0.1</i>												



**Eurofins Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <b>Jack Misner</b>	Lab PM: <b>Mockler, Diana J</b>	Carrier Tracking No(s)	COC No: <b>500-129747-44027 1</b>			
Client Contact: <b>Mitchel Dojan</b>		Phone: <b>262-622-1143</b>	E-Mail: <b>Diana Mockler@et.eurofinsus.com</b>	State of Origin: <b>IL</b>	Page: <b>Page 1 of 1</b>			
Company: <b>KPRG and Associates, Inc.</b>			PWSID:	<b>Analysis Requested</b>				
Address: <b>14665 West Lisbon Road, Suite 1A</b>		Due Date Requested	 500-259939 COC	Job #: <b>12313.2</b>				
City: <b>Brookfield</b>		TAT Requested (days): <b>Standard</b>		Preservation Codes D HNO3 N None <b>500-259939</b>				
State Zip: <b>WI, 53005</b>		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No		Other:				
Phone: <b>262-781-0475(Tel)</b>		PO #: <b>4502161498</b>						
Email: <b>mitcheld@kprginc.com</b>		WO #						
Project Name: <b>Waukegan CCR Event Desc. Quarterly Waukegan CCR</b>		Project #: <b>50011597</b>						
Site: <b>Illinois</b>		SSOW#	Total Number of containers:					
<b>Sample Identification</b>		<b>Sample Date</b>				<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)</b>
		<b>Preservation Codes:</b>						
<del>MW-01</del>								Water
<del>MW-02</del>								Water
<del>MW-03</del>								Water
<del>MW-04</del>								Water
5	MW-09	11/12/2024				1359	G	Water
6	MW-11	11/12/2024				1049	G	Water
7	MW-14	11/12/2024				1226	G	Water
8	MW-16	11/12/2024	0920	G	Water			
9	Duplicate	11/12/2024	-	G	Water			
					Water			
<b>Possible Hazard Identification</b>			<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>					
<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: <b>Jack Misner</b>		Date/Time: <b>11/12/2024 1700</b>	Company: <b>KPRG</b>	Received by: <b>FedEx</b>	Date/Time: <b>11/12/2024</b>			
Relinquished by:		Date/Time:	Company:	Received by: <b>Stephanie Hernandez</b>	Date/Time: <b>11/13/24 0945</b>			
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: <b>0.3 → 0.6 3.2 → 3.1</b>				



KPRG AND ASSOCIATES, INC  
14665 W. LISBON ROAD  
SUITE 1A  
BROOKFIELD, WI 53005  
UNITED STATES US

RC1W61-25-00 LB TRN  
CAD#: 0780307/CAFE3855

Part#: 159489-434  
1/15/2011

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



UNI  
(708) 634-  
INU:  
PO:

ST 10  
RT 519  
5  
10:30  
A  
5202  
11.12

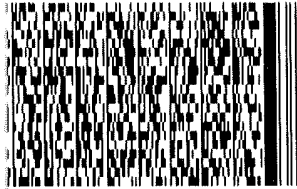
RK IL 60484

REF:

DEPT:

500-259939 Waybi

RMA IIII



FedEx  
Express



FedEx

TRK#  
0221

4221 9521 5202

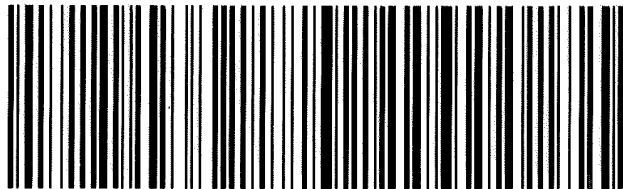
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PRIORITY OVERNIGHT

**79 JOTA**

60484

IL-US

ORD



11/11 58CJ5/582E/C6C4

Part#: 158287-45, 988  
EXP 07/24

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



NEELIN STERLE  
KPRG AND ASSOCIATES, INC  
14665 W. LISBON ROAD  
SUITE 1A  
BROOKFIELD, WI 53005  
UNITED STATES US

ACCOUNT: 23.00 LB TRN  
CAD: 0780307/CAFE3855

Part # 159469-434 MTW EXP 02/25

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

**UNIVERSITY PARK IL 60484**

(708) 634-6200

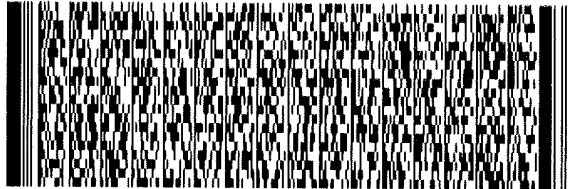
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INV:

PO:

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RMA



**FedEx**  
Express



AN 101907072020327

**FedEx**

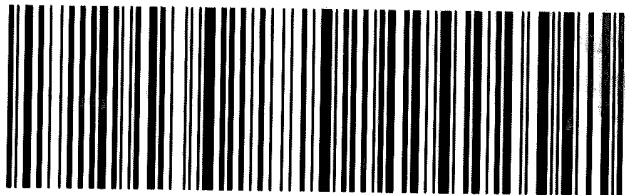
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0221

**WED - 13 NOV 10:30A**  
**PRIORITY OVERNIGHT**

**79 JOTA**

3.2 → 3.1

60484  
IL-US **ORD**



Part # 159469-434 RFB EXP 07/24



500-259939 Waybi

NEELIN STERLE  
KPRG AND ASSOCIATES, INC  
14665 W. LISBON ROAD  
SUITE 1A  
BROOKFIELD, WI 53005  
UNITED STATES US

ACCOUNT: 23.00 LB TRN  
CAD: 0780307/CAFE3855

Part # 159469-434 MTW EXP 02/25

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

**UNIVERSITY PARK IL 60484**

(708) 634-6200

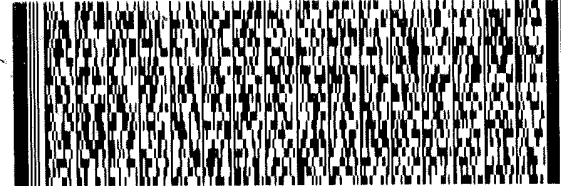
REF:

INV:

PO:

DEPT

RMA



**FedEx**  
Express



AN 101907072020327

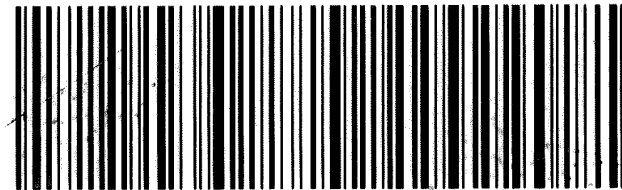
**FedEx**

TRK# 4221 9521 5187  
0221

**WED - 13 NOV 10:30A**  
**PRIORITY OVERNIGHT**

**79 JOTA**

60484  
IL-US **ORD**



#439588 11/12 58CJ5/582E/C6C4

Part # 159469-434 RFB EXP 07/24

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-259939-1

**Login Number: 259939**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1,-0.6,3.1 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 <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.



# Lab Chronicle

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

Job ID: 500-259939-1

**Client Sample ID: MW-01**

**Date Collected: 11/11/24 15:48**

**Date Received: 11/12/24 09:45**

**Lab Sample ID: 500-259939-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	798345	RN	EET CHI	12/05/24 14:18
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:00
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 09:39
Total/NA	Analysis	300.0		10	797813	MM	EET CHI	12/03/24 16:08
Total/NA	Analysis	SM 2540C		1	795525	SO	EET CHI	11/15/24 09:55
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 13:56

**Client Sample ID: MW-02**

**Date Collected: 11/11/24 14:21**

**Date Received: 11/12/24 09:45**

**Lab Sample ID: 500-259939-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	798345	RN	EET CHI	12/05/24 14:22
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:02
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 09:46
Total/NA	Analysis	300.0		10	797827	MM	EET CHI	12/03/24 23:34
Total/NA	Analysis	SM 2540C		1	795525	SO	EET CHI	11/15/24 09:57
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 14:01

**Client Sample ID: MW-03**

**Date Collected: 11/11/24 12:40**

**Date Received: 11/12/24 09:45**

**Lab Sample ID: 500-259939-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	798345	RN	EET CHI	12/05/24 14:26
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:05
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 09:48
Total/NA	Analysis	300.0		10	797827	MM	EET CHI	12/03/24 23:50
Total/NA	Analysis	SM 2540C		1	795735	CLB	EET CHI	11/17/24 23:19
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 14:06

# Lab Chronicle

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

Job ID: 500-259939-1

**Client Sample ID: MW-04**  
**Date Collected: 11/11/24 11:14**  
**Date Received: 11/12/24 09:45**

**Lab Sample ID: 500-259939-4**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	798345	RN	EET CHI	12/05/24 14:37
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:07
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 09:50
Total/NA	Analysis	300.0		10	797827	MM	EET CHI	12/04/24 00:06
Total/NA	Analysis	SM 2540C		1	795735	CLB	EET CHI	11/17/24 23:21
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 14:12

**Client Sample ID: MW-09**  
**Date Collected: 11/12/24 13:59**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	798345	RN	EET CHI	12/05/24 14:41
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:09
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 09:52
Total/NA	Analysis	300.0		10	797827	MM	EET CHI	12/04/24 00:21
Total/NA	Analysis	SM 2540C		1	795735	CLB	EET CHI	11/17/24 23:24
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 14:31

**Client Sample ID: MW-11**  
**Date Collected: 11/12/24 10:49**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	798345	RN	EET CHI	12/05/24 14:45
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:17
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 09:54
Total/NA	Analysis	300.0		5	797827	MM	EET CHI	12/04/24 00:37
Total/NA	Analysis	SM 2540C		1	795735	CLB	EET CHI	11/17/24 23:26
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 14:35

# Lab Chronicle

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

Job ID: 500-259939-1

**Client Sample ID: MW-14**  
**Date Collected: 11/12/24 12:26**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	798345	RN	EET CHI	12/05/24 14:49
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:19
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 09:56
Total/NA	Analysis	300.0		1	797827	MM	EET CHI	12/04/24 01:24
Total/NA	Analysis	SM 2540C		1	795735	CLB	EET CHI	11/17/24 23:29
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 14:39

**Client Sample ID: MW-16**  
**Date Collected: 11/12/24 09:20**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		5	798345	RN	EET CHI	12/05/24 14:53
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:21
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 09:59
Total/NA	Analysis	300.0		20	797827	MM	EET CHI	12/04/24 01:39
Total/NA	Analysis	SM 2540C		1	795735	CLB	EET CHI	11/17/24 23:31
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 14:54

**Client Sample ID: Duplicate**  
**Date Collected: 11/12/24 00:00**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798345	RN	EET CHI	12/05/24 14:56
Total Recoverable	Prep	3005A			797976	BDE	EET CHI	12/04/24 09:38 - 12/04/24 15:38 <sup>1</sup>
Total Recoverable	Analysis	6020B		1	798135	RN	EET CHI	12/04/24 19:24
Total/NA	Prep	7470A			798014	MJG	EET CHI	12/04/24 11:20 - 12/04/24 13:20 <sup>1</sup>
Total/NA	Analysis	7470A		1	798220	MJG	EET CHI	12/05/24 10:01
Total/NA	Analysis	300.0		10	797827	MM	EET CHI	12/04/24 01:55
Total/NA	Analysis	SM 2540C		1	795735	CLB	EET CHI	11/17/24 23:34
Total/NA	Analysis	SM 4500 F C		1	797536	ER	EET CHI	11/27/24 15:08

<sup>1</sup> 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

# Accreditation/Certification Summary

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

Job ID: 500-259939-1

## Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	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 12/18/2024 12:27:04 PM

## JOB DESCRIPTION

Waukegan CCR (RAD)

## JOB NUMBER

500-259939-2

# 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



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Authorized for release by  
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(219)252-7570





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# Case Narrative

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

Job ID: 500-259939-2

**Job ID: 500-259939-2**

**Eurofins Chicago**

## Job Narrative 500-259939-2

### Receipt

The samples were received on 11/12/2024 9:45 AM and 11/13/2024 9:45 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 -0.6°C, 0.1°C and 3.1°C.

### Gas Flow Proportional Counter

Method 904.0: Radium-228 prep batch 160-692006:

The Ra-228 laboratory control sample (LCS) recovery associated with the following sample(s) is outside the upper QC limit of (125%) 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. MW-01 (500-259939-1), MW-02 (500-259939-2), MW-03 (500-259939-3), MW-04 (500-259939-4), MW-09 (500-259939-5), MW-11 (500-259939-6), MW-14 (500-259939-7), (LCS 160-692006/2-A), (500-259932-F-4-B) and (500-259932-G-4-B DU)

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: 500-259939-2

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: 500-259939-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-259939-1	MW-01	Water	11/11/24 15:48	11/12/24 09:45
500-259939-2	MW-02	Water	11/11/24 14:21	11/12/24 09:45
500-259939-3	MW-03	Water	11/11/24 12:40	11/12/24 09:45
500-259939-4	MW-04	Water	11/11/24 11:14	11/12/24 09:45
500-259939-5	MW-09	Water	11/12/24 13:59	11/13/24 09:45
500-259939-6	MW-11	Water	11/12/24 10:49	11/13/24 09:45
500-259939-7	MW-14	Water	11/12/24 12:26	11/13/24 09:45
500-259939-8	MW-16	Water	11/12/24 09:20	11/13/24 09:45
500-259939-9	Duplicate	Water	11/12/24 00:00	11/13/24 09:45

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# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: MW-01**  
Date Collected: 11/11/24 15:48  
Date Received: 11/12/24 09:45

**Lab Sample ID: 500-259939-1**  
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	U	0.0905	0.0908	1.00	0.142	pCi/L	11/15/24 09:44	12/09/24 14:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.7		30 - 110					11/15/24 09:44	12/09/24 14:10	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	<0.516	U *	0.315	0.316	1.00	0.516	pCi/L	12/05/24 12:43	12/12/24 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					12/05/24 12:43	12/12/24 12:37	1
Y Carrier	79.6		30 - 110					12/05/24 12:43	12/12/24 12:37	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	<0.516	U	0.328	0.329	5.00	0.516	pCi/L		12/16/24 15:15	1

# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: MW-02**  
Date Collected: 11/11/24 14:21  
Date Received: 11/12/24 09:45

**Lab Sample ID: 500-259939-2**  
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	<0.121	U	0.0658	0.0659	1.00	0.121	pCi/L	11/15/24 09:44	12/09/24 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.3		30 - 110					11/15/24 09:44	12/09/24 14:11	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	<0.651	U *	0.281	0.283	1.00	0.651	pCi/L	12/05/24 12:43	12/12/24 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					12/05/24 12:43	12/12/24 12:37	1
Y Carrier	74.8		30 - 110					12/05/24 12:43	12/12/24 12:37	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	<0.651	U	0.289	0.291	5.00	0.651	pCi/L		12/16/24 15:15	1

# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: MW-03**  
Date Collected: 11/11/24 12:40  
Date Received: 11/12/24 09:45

**Lab Sample ID: 500-259939-3**  
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	<0.130	U	0.0824	0.0827	1.00	0.130	pCi/L	11/15/24 09:44	12/09/24 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.2		30 - 110					11/15/24 09:44	12/09/24 14:11	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	0.895	*	0.515	0.522	1.00	0.751	pCi/L	12/05/24 12:43	12/12/24 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					12/05/24 12:43	12/12/24 12:37	1
Y Carrier	75.1		30 - 110					12/05/24 12:43	12/12/24 12:37	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	0.970		0.522	0.529	5.00	0.751	pCi/L		12/16/24 15:15	1

# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: MW-04**  
**Date Collected: 11/11/24 11:14**  
**Date Received: 11/12/24 09:45**

**Lab Sample ID: 500-259939-4**  
**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	<0.138	U	0.0874	0.0877	1.00	0.138	pCi/L	11/15/24 09:44	12/09/24 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.1		30 - 110					11/15/24 09:44	12/09/24 14:11	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	<0.632	U *	0.327	0.327	1.00	0.632	pCi/L	12/05/24 12:43	12/12/24 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.2		30 - 110					12/05/24 12:43	12/12/24 12:37	1
Y Carrier	81.5		30 - 110					12/05/24 12:43	12/12/24 12:37	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	<0.632	U	0.338	0.339	5.00	0.632	pCi/L		12/16/24 15:15	1



# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: MW-09**  
Date Collected: 11/12/24 13:59  
Date Received: 11/13/24 09:45

**Lab Sample ID: 500-259939-5**  
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	0.379		0.139	0.143	1.00	0.134	pCi/L	11/15/24 09:44	12/09/24 14:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.7		30 - 110					11/15/24 09:44	12/09/24 14:11	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	<0.659	U *	0.428	0.431	1.00	0.659	pCi/L	12/05/24 12:43	12/12/24 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					12/05/24 12:43	12/12/24 12:37	1
Y Carrier	74.4		30 - 110					12/05/24 12:43	12/12/24 12:37	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	0.924		0.450	0.454	5.00	0.659	pCi/L		12/16/24 15:15	1

# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: MW-11**

**Lab Sample ID: 500-259939-6**

Date Collected: 11/12/24 10:49

Matrix: Water

Date Received: 11/13/24 09:45

**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	<0.190	U	0.121	0.121	1.00	0.190	pCi/L	11/15/24 09:44	12/09/24 14:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.6		30 - 110					11/15/24 09:44	12/09/24 14:13	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	<1.17	U * G	0.750	0.755	1.00	1.17	pCi/L	12/05/24 12:43	12/12/24 17:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.2		30 - 110					12/05/24 12:43	12/12/24 17:07	1
Y Carrier	75.9		30 - 110					12/05/24 12:43	12/12/24 17:07	1

**Method: TAL-STL Ra226\_Ra228 - Combined Radium-226 and Radium-228**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<1.17	U	0.760	0.765	5.00	1.17	pCi/L		12/16/24 15:15	1

# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: MW-14**  
Date Collected: 11/12/24 12:26  
Date Received: 11/13/24 09:45

**Lab Sample ID: 500-259939-7**  
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	<0.235	U	0.163	0.164	1.00	0.235	pCi/L	11/15/24 09:44	12/09/24 14:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.2		30 - 110					11/15/24 09:44	12/09/24 14:13	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	<0.914	U *	0.516	0.516	1.00	0.914	pCi/L	12/05/24 12:43	12/12/24 12:37	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	78.2		30 - 110					12/05/24 12:43	12/12/24 12:37	1
Y Carrier	82.2		30 - 110					12/05/24 12:43	12/12/24 12:37	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	<0.914	U	0.541	0.541	5.00	0.914	pCi/L		12/16/24 15:15	1

# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: MW-16**

**Lab Sample ID: 500-259939-8**

Date Collected: 11/12/24 09:20

Matrix: Water

Date Received: 11/13/24 09:45

**Method: EPA 903.0 - Radium-226 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.209</b>		0.130	0.131	1.00	0.179	pCi/L	11/15/24 09:44	12/09/24 14:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	72.2		30 - 110					11/15/24 09:44	12/09/24 14:13	1

**Method: EPA 904.0 - Radium-228 (GFPC)**

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.839</b>		0.492	0.498	1.00	0.723	pCi/L	12/05/24 12:43	12/12/24 12:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.2		30 - 110					12/05/24 12:43	12/12/24 12:34	1
Y Carrier	74.4		30 - 110					12/05/24 12:43	12/12/24 12:34	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
<b>Combined Radium 226 + 228</b>	<b>1.05</b>		0.509	0.515	5.00	0.723	pCi/L		12/16/24 15:15	1

# Client Sample Results

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

Job ID: 500-259939-2

**Client Sample ID: Duplicate**  
Date Collected: 11/12/24 00:00  
Date Received: 11/13/24 09:45

**Lab Sample ID: 500-259939-9**  
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	<0.119	U	0.0769	0.0772	1.00	0.119	pCi/L	11/18/24 09:51	12/10/24 20:13	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					11/18/24 09:51	12/10/24 20:13	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	<0.900	U	0.470	0.471	1.00	0.900	pCi/L	11/18/24 09:57	12/05/24 15:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.8		30 - 110					11/18/24 09:57	12/05/24 15:26	1
Y Carrier	68.4		30 - 110					11/18/24 09:57	12/05/24 15:26	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	<0.900	U	0.476	0.477	5.00	0.900	pCi/L		12/16/24 15:15	1

# Definitions/Glossary

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

Job ID: 500-259939-2

## Qualifiers

### Rad

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: 500-259939-2

## Rad

### Prep Batch: 688696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total/NA	Water	PrecSep-21	
500-259939-2	MW-02	Total/NA	Water	PrecSep-21	
500-259939-3	MW-03	Total/NA	Water	PrecSep-21	
500-259939-4	MW-04	Total/NA	Water	PrecSep-21	
500-259939-5	MW-09	Total/NA	Water	PrecSep-21	
500-259939-6	MW-11	Total/NA	Water	PrecSep-21	
500-259939-7	MW-14	Total/NA	Water	PrecSep-21	
500-259939-8	MW-16	Total/NA	Water	PrecSep-21	
MB 160-688696/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-688696/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-259939-6 DU	MW-11	Total/NA	Water	PrecSep-21	

### Prep Batch: 689156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-9	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-689156/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-689156/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 689157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-9	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-689157/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-689157/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

### Prep Batch: 692006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-259939-1	MW-01	Total/NA	Water	PrecSep_0	
500-259939-2	MW-02	Total/NA	Water	PrecSep_0	
500-259939-3	MW-03	Total/NA	Water	PrecSep_0	
500-259939-4	MW-04	Total/NA	Water	PrecSep_0	
500-259939-5	MW-09	Total/NA	Water	PrecSep_0	
500-259939-6	MW-11	Total/NA	Water	PrecSep_0	
500-259939-7	MW-14	Total/NA	Water	PrecSep_0	
500-259939-8	MW-16	Total/NA	Water	PrecSep_0	
MB 160-692006/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-692006/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-259939-2

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

**Lab Sample ID: MB 160-688696/1-A**  
**Matrix: Water**  
**Analysis Batch: 692651**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 688696**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.176	U	0.0872	0.0872	1.00	0.176	pCi/L	11/15/24 09:44	12/09/24 14:09	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					11/15/24 09:44	12/09/24 14:09	1
	78.2									

**Lab Sample ID: LCS 160-688696/2-A**  
**Matrix: Water**  
**Analysis Batch: 692651**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 688696**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits		
				Uncert. (2σ+/-)							
Radium-226	9.58	8.895		1.00	1.00	0.145	pCi/L	93	75 - 125		
Carrier	LCS	LCS									
Ba Carrier	%Yield	Qualifier	Limits								
	78.5		30 - 110								

**Lab Sample ID: 500-259939-6 DU**  
**Matrix: Water**  
**Analysis Batch: 692652**

**Client Sample ID: MW-11**  
**Prep Type: Total/NA**  
**Prep Batch: 688696**

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit	
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)						
Radium-226	<0.190	U	<0.180	U	0.106	1.00	0.180	pCi/L	0.25	1	
Carrier	DU	DU									
Ba Carrier	%Yield	Qualifier	Limits								
	75.7		30 - 110								

**Lab Sample ID: MB 160-689156/1-A**  
**Matrix: Water**  
**Analysis Batch: 692926**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 689156**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.122	U	0.0788	0.0792	1.00	0.122	pCi/L	11/18/24 09:51	12/10/24 20:16	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	30 - 110					11/18/24 09:51	12/10/24 20:16	1
	95.9									

**Lab Sample ID: LCS 160-689156/2-A**  
**Matrix: Water**  
**Analysis Batch: 692926**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 689156**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	9.58	9.675		1.05	1.00	0.143	pCi/L	101	75 - 125

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# QC Sample Results

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

Job ID: 500-259939-2

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

**Lab Sample ID: LCS 160-689156/2-A**  
**Matrix: Water**  
**Analysis Batch: 692926**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 689156**

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.9		30 - 110

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

**Lab Sample ID: MB 160-689157/1-A**  
**Matrix: Water**  
**Analysis Batch: 691936**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 689157**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.643	U	0.373	0.374	1.00	0.643	pCi/L	11/18/24 09:57	12/05/24 15:26	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier			11/18/24 09:57	12/05/24 15:26	1			
Y Carrier	95.9		30 - 110		11/18/24 09:57	12/05/24 15:26	1			
	75.5		30 - 110		11/18/24 09:57	12/05/24 15:26	1			

**Lab Sample ID: LCS 160-689157/2-A**  
**Matrix: Water**  
**Analysis Batch: 691936**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 689157**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-228	8.29	9.028		1.37	1.00	0.665	pCi/L	109	75 - 125
Carrier	LCS	LCS	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	%Yield	Qualifier			11/18/24 09:57	12/05/24 15:26	1		
Y Carrier	93.9		30 - 110		11/18/24 09:57	12/05/24 15:26	1		
	73.3		30 - 110		11/18/24 09:57	12/05/24 15:26	1		

**Lab Sample ID: MB 160-692006/1-A**  
**Matrix: Water**  
**Analysis Batch: 693287**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 692006**

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.583	U	0.321	0.321	1.00	0.583	pCi/L	12/05/24 12:43	12/12/24 12:35	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	%Yield	Qualifier			12/05/24 12:43	12/12/24 12:35	1			
Y Carrier	93.0		30 - 110		12/05/24 12:43	12/12/24 12:35	1			
	83.4		30 - 110		12/05/24 12:43	12/12/24 12:35	1			

**Lab Sample ID: LCS 160-692006/2-A**  
**Matrix: Water**  
**Analysis Batch: 693287**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 692006**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec
				Uncert. (2σ+/-)					Limits
Radium-228	8.27	13.30	*	2.01	1.00	1.04	pCi/L	161	75 - 125

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# QC Sample Results

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

Job ID: 500-259939-2

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

Lab Sample ID: LCS 160-692006/2-A  
Matrix: Water  
Analysis Batch: 693287

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 692006

Carrier	LCS		Limits
	%Yield	Qualifier	
Ba Carrier	91.5		30 - 110
Y Carrier	79.6		30 - 110

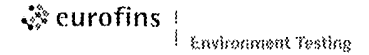
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**Eurofins Chicago**

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

**Chain of Custody Record**



<b>Client Information</b>		Sampler: <b>Jack Misner</b>		Lab PM: Mockler, Diana J		Carrier Tracking No(s)		COC No: 500-129747-44027 1											
Client Contact: Mitchel Dojan		Phone: <b>262-622-1143</b>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin: <b>IL</b>		Page: Page 1 of 1											
Company: KPRG and Associates, Inc.		PWSID:		<b>Analysis Requested</b>						Job #: <b>12313.2</b>									
Address: 14665 West Lisbon Road, Suite 1A		Due Date Requested		<p>500-259939 COC</p>						Preservation Codes D HNO3 N None									
City: Brookfield		TAT Requested (days): <b>Standard</b>								Other:									
State Zip: WI, 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No								500-259939									
Phone: 262-781-0475(Tel)		PO #: 4502161498								Special Instructions/Note:									
Email: mitcheld@kprginc.com		WO #																	
Project Name: Waukegan CCR Event Desc. Quarterly Waukegan CCR		Project #: 50011597		Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air)		Preservation Codes		Total Number of Containers			
Site: Illinois		SSOW#		MW-01						Water									
				<del>MW-02</del>						Water									
				<del>MW-03</del>						Water									
				<del>MW-10</del>						Water									
5 MW-09		11/12/2024		1359		G		Water		N		N		X		X		V	
6 MW-11		11/12/2024		1049		G		Water		N		N		X		X		X	
7 MW-14		11/12/2024		1226		G		Water		N		N		X		X		X	
8 MW-16		11/12/2024		0920		G		Water		N		N		X		X		X	
9 Duplicate		11/12/2024		-		G		Water		N		N		X		X		X	
								Water											
<b>Possible Hazard Identification</b>						<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>													
<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: <b>Jack Misner</b>		Date/Time: 11/12/2024 1700		Company: KPRG		Received by: Fed Ex		Date/Time: 11/12/2024		Company: Fed Ex									
Relinquished by:		Date/Time:		Company:		Received by: <b>Stephanie Hernandez</b>		Date/Time: 11/13/24 0945		Company: EELA									
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: <b>0.3 → 0.6 3.2 → 3.1</b>															

KPRG AND ASSOCIATES, INC  
14665 W. LISBON ROAD  
SUITE 1A  
BROOKFIELD, WI 53005  
UNITED STATES US

RC1W61-25-00 LB TRN  
CAD#: 0780307/CAFE3855

Part#: 159489-434  
P/NR/FFA

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



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(708) 634-  
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RT 519  
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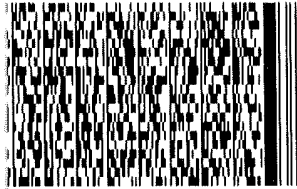
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DEPT:

500-259939 Waybi

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Express



FedEx

TRK#  
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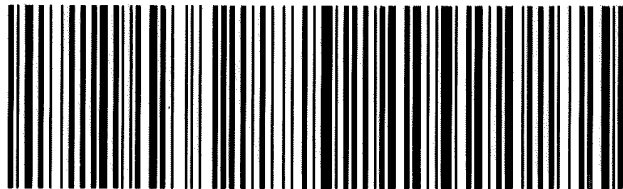
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79 JOTA

60484

IL-US

ORD



58CJ5/582E/C6C4

Part#: 158287-45, 988  
EXP 07/24

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NEELIN STERLE  
KPRG AND ASSOCIATES, INC  
14665 W. LISBON ROAD  
SUITE 1A  
BROOKFIELD, WI 53005  
UNITED STATES US

ACCOUNT: 23.00 LB TRN  
CAD: 0780307/CAFE3855

Part # 159469-434 NTW EXP 02/25

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

**UNIVERSITY PARK IL 60484**

(708) 634-6200

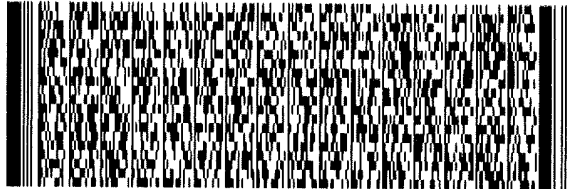
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**FedEx**  
Express



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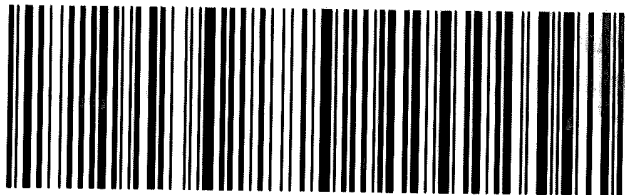
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0221

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**PRIORITY OVERNIGHT**

**79 JOTA**

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**60484**  
IL-US **ORD**



Part # 159469-434 NTW EXP 07/24



500-259939 Waybi

NEELIN STERLE  
KPRG AND ASSOCIATES, INC  
14665 W. LISBON ROAD  
SUITE 1A  
BROOKFIELD, WI 53005  
UNITED STATES US

ACCOUNT: 23.00 LB TRN  
CAD: 0780307/CAFE3855

Part # 159469-434 NTW EXP 02/25

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

**UNIVERSITY PARK IL 60484**

(708) 634-6200

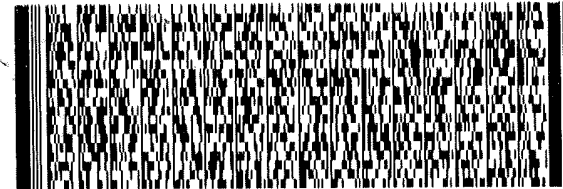
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**FedEx**  
Express



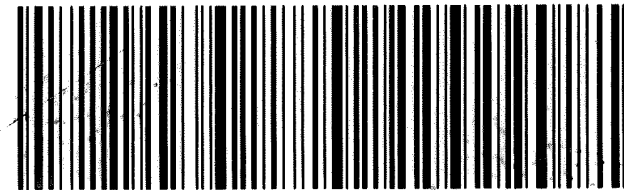
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**WED - 13 NOV 10:30A**  
**PRIORITY OVERNIGHT**

**79 JOTA**

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IL-US **ORD**



#439588 11/12 58CJ5/582E/C6C4

Part # 159469-434 NTW EXP 07/24

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

# Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Sampler:	Lab PM	Carrier Tracking No(s)	COC No:								
Client Contact: Shipping/Receiving		N/A	Mockler, Diana J	N/A	500-194965-1								
Company: TestAmerica Laboratories, Inc.		N/A	E-Mail: Diana.Mockler@eurofins.com	State of Origin: Illinois	Page Page 1 of 1								
Address: 13715 Rider Trail North, City: Earth City		Due Date Requested: 12/18/2024	Accreditations Required (See note): NELAP - Illinois										
State, Zip: MO, 63045		TAT Requested (days): N/A	Preservation Codes:										
Phone: 314-298-8666(Tel) 314-298-8757(Fax)		PO #: N/A	Analysis Requested										
Email: N/A		WO #: N/A	Perform M/MSD (Yes or No)										
Project Name: Waukegan CCR (RAD)		Project #: 50011597	Field Filtered Sample (Yes or No)										
Site: NRG Midwest Generation Waukegan		SSOW#: N/A	903.0/PrecSep_21 Standard Target List										
			904.0/PrecSep_0 Standard Target List										
			Ra26Ra228 GFPC										
			Total Number of containers										
			Other: N/A										
			Special Instructions/Note:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Soil, Overstall, etc.)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	903.0/PrecSep_21 Standard Target List	904.0/PrecSep_0 Standard Target List	Ra26Ra228 GFPC	Total Number of containers	Special Instructions/Note:
MW-01 (500-259939-1)	11/11/24	15:48 Central	G	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
MW-02 (500-259939-2)	11/11/24	14:21 Central	G	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
MW-03 (500-259939-3)	11/11/24	12:40 Central	G	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
MW-04 (500-259939-4)	11/11/24	11:14 Central	G	Water	X	X	X	X	X	X	3	Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte &amp; 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</p>													
<p><b>Possible Hazard Identification</b>          Unconfirmed          Deliverable Requested: I, II, III, IV, Other (specify) _____          Empty Kit Relinquished by: _____          Relinquished by: <i>[Signature]</i> Date: 11/12/24 19:50 Company: _____          Relinquished by: <i>[Signature]</i> Date/Time: 11/12/24 19:50 Company: Chyenne Forrest          Relinquished by: _____ Date/Time: _____ Company: _____          Custody Seals Intact: _____ Custody Seal No.: _____          Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks: _____</p>													
<p><b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>          Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months          Special Instructions/QC Requirements: _____</p>													
<p>Method of Shipment: _____          Received by: <i>[Signature]</i> Date/Time: 0815 NOV 13 2024 Company: ETA-84L          Received by: Chyenne Forrest Date/Time: _____ Company: _____          Received by: _____ Date/Time: _____ Company: _____</p>													



# Chain of Custody Record



Environment Testing



<b>Client Information (Sub Contract Lab)</b>		Sampler: N/A	Lab PM: Mockler, Diana J	Carrier Tracking No(s): N/A	COC No: 500-195049-1						
Client Contact: N/A		Phone: N/A	E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1						
Shipping/Receiving Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-259939-2							
Address: 13715 Rider Trail North, City: Earth City, State, Zip: MO, 63045		Due Date Requested: 12/5/2024		Preservation Codes:							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		TAT Requested (days): N/A		Analysis Requested:							
Email: N/A		PO #: N/A		Total Number of Containers:							
Project Name: Waukegan CCR (RAD)		WO #: N/A		903.0/PrecSep_21 Standard Target List							
Site: NRG Midwest Generation Waukegan		Project #: 50011597		904.0/PrecSep_0 Standard Target List							
		SSOW#: N/A		Ra226Ra228_GFPc							
				Perform MS/MSD (Yes or No)							
				Field Filtered Sample (Yes or No)							
				Preservation Code:							
				Matrix (Newster, Sealed, On-water/soil)							
				Sample Type (C=comp, G=grab)							
				Sample Time							
				Sample Date							
				Special Instructions/Note:							
MW-09 (500-259939-5)		11/12/24		13:59 Central		G Water		X X X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
MW-11 (500-259939-6)		11/12/24		10:49 Central		G Water		X X X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
MW-14 (500-259939-7)		11/12/24		12:26 Central		G Water		X X X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
MW-16 (500-259939-8)		11/12/24		09:20 Central		G Water		X X X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	
Duplicate (500-259939-9)		11/12/24		Central		G Water		X X X		Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume.	

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

**Possible Hazard Identification**  
Unconfirmed

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

Empty Kit Relinquished by: [Signature] Date: 11/13/24 Time: 16:13

Relinquished by: [Signature] Date/Time: 11/13/24 16:13 Company: Cheyenne Forrest

Relinquished by: [Signature] Date/Time: [Blank] Company: [Blank]

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

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:

Method of Shipment: [Blank]

Received by: [Signature] Date/Time: 0826 NOV 14 2024 Company: EFA-STL

Received by: Cheyenne Forrest Date/Time: [Blank] Company: [Blank]

Received by: [Blank] Date/Time: [Blank] Company: [Blank]





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-259939-2

**Login Number: 259939**

**List Number: 1**

**Creator: Scott, Sherri L**

**List Source: Eurofins Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1,-0.6,3.1 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 <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: 500-259939-2

**Login Number: 259939**

**List Number: 2**

**Creator: Forrest, Cheyenne L**

**List Source: Eurofins St. Louis**

**List Creation: 11/13/24 01:08 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.



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-259939-2

**Login Number: 259939**

**List Number: 3**

**Creator: Forrest, Cheyenne L**

**List Source: Eurofins St. Louis**

**List Creation: 11/14/24 01:51 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: 500-259939-2

## Client Sample ID: MW-01

Date Collected: 11/11/24 15:48

Date Received: 11/12/24 09:45

## Lab Sample ID: 500-259939-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			688696	BCE	EET SL	11/15/24 09:44
Total/NA	Analysis	903.0		1	692633	SCB	EET SL	12/09/24 14:10
Total/NA	Prep	PrecSep_0			692006	BCE	EET SL	12/05/24 12:43
Total/NA	Analysis	904.0		1	693287	FLC	EET SL	12/12/24 12:37
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

## Client Sample ID: MW-02

Date Collected: 11/11/24 14:21

Date Received: 11/12/24 09:45

## Lab Sample ID: 500-259939-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			688696	BCE	EET SL	11/15/24 09:44
Total/NA	Analysis	903.0		1	692633	SCB	EET SL	12/09/24 14:11
Total/NA	Prep	PrecSep_0			692006	BCE	EET SL	12/05/24 12:43
Total/NA	Analysis	904.0		1	693287	FLC	EET SL	12/12/24 12:37
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

## Client Sample ID: MW-03

Date Collected: 11/11/24 12:40

Date Received: 11/12/24 09:45

## Lab Sample ID: 500-259939-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			688696	BCE	EET SL	11/15/24 09:44
Total/NA	Analysis	903.0		1	692633	SCB	EET SL	12/09/24 14:11
Total/NA	Prep	PrecSep_0			692006	BCE	EET SL	12/05/24 12:43
Total/NA	Analysis	904.0		1	693287	FLC	EET SL	12/12/24 12:37
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

## Client Sample ID: MW-04

Date Collected: 11/11/24 11:14

Date Received: 11/12/24 09:45

## Lab Sample ID: 500-259939-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			688696	BCE	EET SL	11/15/24 09:44
Total/NA	Analysis	903.0		1	692633	SCB	EET SL	12/09/24 14:11
Total/NA	Prep	PrecSep_0			692006	BCE	EET SL	12/05/24 12:43
Total/NA	Analysis	904.0		1	693287	FLC	EET SL	12/12/24 12:37
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

# Lab Chronicle

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

Job ID: 500-259939-2

**Client Sample ID: MW-09**  
**Date Collected: 11/12/24 13:59**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			688696	BCE	EET SL	11/15/24 09:44
Total/NA	Analysis	903.0		1	692633	SCB	EET SL	12/09/24 14:11
Total/NA	Prep	PrecSep_0			692006	BCE	EET SL	12/05/24 12:43
Total/NA	Analysis	904.0		1	693287	FLC	EET SL	12/12/24 12:37
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

**Client Sample ID: MW-11**  
**Date Collected: 11/12/24 10:49**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			688696	BCE	EET SL	11/15/24 09:44
Total/NA	Analysis	903.0		1	692652	SCB	EET SL	12/09/24 14:13
Total/NA	Prep	PrecSep_0			692006	BCE	EET SL	12/05/24 12:43
Total/NA	Analysis	904.0		1	693287	FLC	EET SL	12/12/24 17:07
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

**Client Sample ID: MW-14**  
**Date Collected: 11/12/24 12:26**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			688696	BCE	EET SL	11/15/24 09:44
Total/NA	Analysis	903.0		1	692652	SCB	EET SL	12/09/24 14:13
Total/NA	Prep	PrecSep_0			692006	BCE	EET SL	12/05/24 12:43
Total/NA	Analysis	904.0		1	693287	FLC	EET SL	12/12/24 12:37
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

**Client Sample ID: MW-16**  
**Date Collected: 11/12/24 09:20**  
**Date Received: 11/13/24 09:45**

**Lab Sample ID: 500-259939-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			688696	BCE	EET SL	11/15/24 09:44
Total/NA	Analysis	903.0		1	692652	SCB	EET SL	12/09/24 14:13
Total/NA	Prep	PrecSep_0			692006	BCE	EET SL	12/05/24 12:43
Total/NA	Analysis	904.0		1	693288	FLC	EET SL	12/12/24 12:34
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

# Lab Chronicle

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

Job ID: 500-259939-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-259939-9**

**Date Collected: 11/12/24 00:00**

**Matrix: Water**

**Date Received: 11/13/24 09:45**

<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			689156	BCE	EET SL	11/18/24 09:51
Total/NA	Analysis	903.0		1	692849	SCB	EET SL	12/10/24 20:13
Total/NA	Prep	PrecSep_0			689157	BCE	EET SL	11/18/24 09:57
Total/NA	Analysis	904.0		1	691936	SCB	EET SL	12/05/24 15:26
Total/NA	Analysis	Ra226_Ra228		1	694016	FLC	EET SL	12/16/24 15:15

**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: 500-259939-2

## 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: 500-259939-2

## 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)	
500-259939-1	MW-01	76.7	
500-259939-2	MW-02	84.3	
500-259939-3	MW-03	76.2	
500-259939-4	MW-04	71.1	
500-259939-5	MW-09	79.7	
500-259939-6	MW-11	70.6	
500-259939-6 DU	MW-11	75.7	
500-259939-7	MW-14	73.2	
500-259939-8	MW-16	72.2	
500-259939-9	Duplicate	85.8	
LCS 160-688696/2-A	Lab Control Sample	78.5	
LCS 160-689156/2-A	Lab Control Sample	93.9	
MB 160-688696/1-A	Method Blank	78.2	
MB 160-689156/1-A	Method Blank	95.9	
<b>Tracer/Carrier Legend</b>			
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)
500-259939-1	MW-01	92.0	79.6
500-259939-2	MW-02	91.2	74.8
500-259939-3	MW-03	87.0	75.1
500-259939-4	MW-04	76.2	81.5
500-259939-5	MW-09	89.0	74.4
500-259939-6	MW-11	87.2	75.9
500-259939-7	MW-14	78.2	82.2
500-259939-8	MW-16	88.2	74.4
500-259939-9	Duplicate	85.8	68.4
LCS 160-689157/2-A	Lab Control Sample	93.9	73.3
LCS 160-692006/2-A	Lab Control Sample	91.5	79.6
MB 160-689157/1-A	Method Blank	95.9	75.5
MB 160-692006/1-A	Method Blank	93.0	83.4
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			



PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	11/11/24
Sample Name	MW-01	Start Time	1532	
Condition of Well	Good			
Water Level	<del>1532</del> 22.74	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	6.5 ct	W L at Sample Time	22.77	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR, Permit	Sample Time	1548	
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)
1533	22.74	7.59	14.4	.729	8.01	117.3	2.26
1536	-	7.43	13.9	<del>1.18</del> .852	3.53	118.8	2.31
1539	-	7.41	13.9	.855	2.16	114.1	2.24
1541	-	7.40	13.9	.853	1.72	109.8	2.19
1544	-	7.40	13.9	.851	1.50	105.5	2.25

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	11/11/24
Sample Name	MW-02	Start Time	1351	
Condition of Well	Good			
Water Level	22.60	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	8 gal	WL at Sample Time	22.62	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCP, Permit	Sample Time	1421	
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)
1356	22.60	7.86	13.9	.754	4.52	3.4	14.30
1359	-	7.95	13.8	.736	2.21	3.8	5.53
1402	-	7.96	13.9	.742	1.46	-6.2	11.62
1405	-	7.92	13.8	.747	1.21	-22.4	6.60
1408	-	7.88	13.8	.751	1.19	-34.3	3.41
1411	-	7.86	13.8	.752	1.06	-45.4	20.82
1414	-	7.83	13.9	.755	1.11	-55.5	2.44
1417	-	7.83	13.8	.750	1.21	-63.9	17.58

SAMPLING NOTES:

Permit Duplicate

Sampler Name and Company:

KPRG and Associates



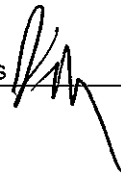
PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	11/11/24
Sample Name	MW-03	Start Time	1208	
Condition of Well	Good			
Water Level	23.05	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	>8 gal	W L at Sample Time	23.05	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR, Permit	Sample Time	<del>1230</del> 1240	
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)
1212	23.05	7.39	14.9	.901	7.76	113.0	3.82
1215	-	9.58	13.8	.734	2.37	-0.5	4.62
1218	-	9.87	13.7	.731	1.80	-43.7	4.21
1221	-	10.14	13.7	.738	1.33	-89.1	3.94
1224 <del>1225</del>	-	10.24	13.6	.743	1.12	-111.8	3.80
1227	-	10.25	13.6	.747	0.98	-125.7	3.30
1230	-	10.22	13.5	.748	0.89	-132.8	3.21
1233	-	10.23	13.6	.756	0.81	-110.2	3.14
1236	-	10.24	13.7	.755	0.75	-144.8	3.05

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	11/11/24
Sample Name	Mw #1	Start Time	1041	
Condition of Well	Good			
Water Level	23.00	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Clear	
Volume Removed	> 8 at	W L at Sample Time	23.00	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR, Permit	Sample Time	1114	
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)
1046	23.00	7.01	14.5	.778	4.63	122.1	16.30
1049	-	7.10	13.9	.681	2.07	87.9	5.73
1052	-	7.24	13.9	.689	1.41	44.4	4.76
1055	-	7.31	13.9	.697	1.15	15.1	4.26
1058	-	7.38	13.8	.702	<del>0.99</del> 0.99	-10.9	3.93
1101	-	7.44	13.9	.708	0.88	-30.4	3.90
1104	-	7.50	13.9	.710	0.79	-46.5	3.89
1107	-	7.55	13.9	.715	0.73	-59.8	3.58
1110	-	7.58	13.9	.717	0.69	-68.5	3.79

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	11/12/24
Sample Name	MW-89	Start Time	1339	
Condition of Well	Good			
Water Level	11.10	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Slightly Cloudy Gray	
Volume Removed	4.5 gal	WL at Sample Time	11.10	
Method of Sample	Low flow bladder	Sample Characteristics	Clear	
Sample Analysis	CCR, Permit	Sample Time	1359	
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)
1343	11.10	7.20	14.4	1.398	5.44	-75.0	140.08
1346	-	7.09	14.6	1.459	2.77	-102.8	64.69
1349	-	7.11	14.2	1.435	1.84	-112.2	26.54
1352	-	7.12	14.2	1.410	1.41	-116.1	17.81
1355	-	7.12	14.1	1.397	1.17	-118.2	15.83

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates



PROJECT NAME	12313.2 - NRG Waukegan Station		DATE	11/12/24
Sample Name	MW-11	Start Time	1028	
Condition of Well	Good			
Water Level	6.45	Total Depth	-	
Well Diameter	PVC - 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Brown	
Volume Removed	4qt	WL at Sample Time	6.45	
Method of Sample	Low flow bladder	Sample Characteristics		
Sample Analysis	Permit, CCR	Sample Time	1049	
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)
1033	6.45	7.04	15.1	.976	4.90	-87.5	470.67
1036	-	6.94	15.2	.922	2.09	-99.6	264.38
1039	-	6.93	15.1	.918	1.53	-102.2	177.66
1042	-	6.92	15.1	.918	1.21	-103.4	106.15
1045	-	6.91	15.4	.916	1.03	-104.4	77.59

SAMPLING NOTES:

CCR Duplicate

Sampler Name and Company:

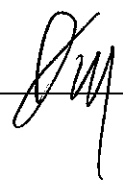
KPRG and Associates

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	11/12/24
Sample Name	MW-14	Start Time	1205	
Condition of Well	Good			
Water Level	6.10	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Brown	
Volume Removed	4.5qt	WL at Sample Time	6.12	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy <del>Orange</del> <del>Brown</del>	
Sample Analysis	Permit, CCR	Sample Time	1226	
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)
1210	6.10	7.17	13.6	.818	6.20	-56.6	228.73
1213	-	6.97	13.5	.817	2.55	-84.9	216.81
1216	-	6.96	13.4	.819	1.78	-92.5	155.22
1219	-	6.96	13.4	.827	1.36	-99.9	80.85
1222	-	6.96	13.5	.835	1.13	-104.7	54.91

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates 

PROJECT NAME	12313.2 – NRG Waukegan Station		DATE	11/12/24
Sample Name	MW-16	Start Time	0920	
Condition of Well	Good			
Water Level	28.76	Total Depth	-	
Well Diameter	PVC – 2 inch	Volume in Well	-	
Method of Purge	Low flow bladder	Purge Characteristics	Cloudy Brown	
Volume Removed	5 gal	W L at Sample Time	28.80	
Method of Sample	Low flow bladder	Sample Characteristics	Slightly Cloudy Brown	
Sample Analysis	<del>Asst</del> , CCR	Sample Time	0943	
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)
0924	28.76	7.10	13.8	2.083	7.53	41.6	82.56
0927	-	6.88	13.1	1.625	3.62	-55.1	212.55
0930	-	6.82	13.1	1.577	2.31	-63.5	95.30
0933	-	6.77	13.6	1.544	1.71	-64.6	57.61
0936	-	6.76	13.0	1.529	1.41	-65.5	33.49
0939	-	6.76	13.0	1.516	1.17	-66.8	23.93

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

