

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 2nd quarter 2021 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 as they will be calculated and proposed as part of the Operating Permit submittals due by October 31, 2021. Upon Illinois Environmental Protection Agency approval of the Operating Permit, the approved comparison values will be included 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	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228	Selenium	Thallium	
MW-09 up-gradient	11/4/2015	13	210	450	0.14	6.60	370	1700	< 0.003	< 0.001	0.015	^< 0.001	< 0.0005	< 0.005	< 0.001	0.14	< 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	< 0.003	0.06	0.05	< 0.001	< 0.0005	0.043	< 0.001	0.11	< 0.00061	0.094	< 0.0002	0.51	< 0.36	0.025	< 0.002	
	5/3/2016	16	310	620	0.12	7.02	740	2500	< 0.003	0.0014	0.025	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	< 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	0.0041	0.042	0.024	< 0.001	0.0011	0.056	0.0027	0.21	0.0012	0.049	< 0.0002	0.063	0.482	0.039	< 0.002	
	12/8/2016	15	200	330	0.18	7.01	270	1300	< 0.003	0.004	0.016	< 0.001	0.00052	< 0.005	< 0.001	0.18	< 0.0005	0.077	< 0.0002	0.24	< 0.72	0.038	< 0.002	
	2/23/2017	14	190	290	0.12	7.68	320	1300	< 0.003	0.0027	0.014	< 0.001	< 0.0005	0.059	0.0018	0.12	< 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	< 0.003	< 0.001	0.0094	^< 0.001	< 0.0005	< 0.005	< 0.001	0.29	< 0.0005	0.045	< 0.0002	0.51	< 0.342	0.085	< 0.002	
	7/6/2017	21	220	430	0.13	7.18	610	1800	< 0.003	0.002	0.018	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 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	< 0.003	0.0067	0.019	< 0.001	< 0.0005	0.0052	0.0017	0.14	< 0.0005	0.069	< 0.0002	0.33	0.944	0.041	< 0.002	
	11/29/2017	26	200	390	0.13	7.05	390	1600	< 0.003	0.0017	0.015	< ^ 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	0.086	< 0.0002	0.47	0.475	0.042	< 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	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	NA
	5/15/2019	26	120	260	0.13	7.53	31	1000	< 0.003	< 0.001	0.0073	< 0.001	< 0.0005	< 0.005	< 0.001	0.11	< 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	NA
	4/22/2020	22	140	9.2	0.18	7.81	360	700	NA	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	NA
	5/6/2021	31	170	35	0.12	7.51	420	910	< 0.003	< 0.001	0.0075	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	< 0.0005	0.04	< 0.0002	0.47	< 0.614	0.023	< 0.002	
	MW-11 up-gradient	11/5/2015	5.2	140	240	0.13	6.51	190	1100	< 0.003	0.77	0.039	^< 0.001	< 0.0005	< 0.005	< 0.001	0.13	0.001	0.055	< 0.0002	< 0.0050	0.656	< 0.0025	< 0.002
		3/2/2016	4.0	170	240	0.1	7.16	210	1200	< 0.003	0.55	0.048	< 0.001	< 0.0005	0.0058	< 0.001	0.1	0.0011	0.049	< 0.0002	< 0.0050	1.09	< 0.0025	< 0.002
		5/5/2016	5.0	140	280	0.11	7.17	160	1000	< 0.003	0.51	0.038	< 0.001	< 0.0005	< 0.005	< 0.001	0.11	< 0.0005	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	< 0.003	1.1	0.05	< 0.001	< 0.0005	0.0055	< 0.001	0.13	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	< 0.003	0.87	0.049	< 0.001	< 0.0005	< 0.005	< 0.001	0.12	< 0.0005	0.038	< 0.0002	< 0.005	1.87	< 0.0025	< 0.002	
2/24/2017		2.4	180	220	4.9	6.61	170	1200	< 0.003	0.58	0.047	< 0.001	< 0.0005	< 0.005	< 0.001	H 0.13	< 0.0005	0.039	< 0.0002	< 0.005	0.982	< 0.0025	< 0.002	
5/18/2017		1.8	160	170	0.12	7.42	120	1000	< 0.003	0.5	0.047	^< 0.001	< 0.0005	0.0056	< 0.001	0.12	< 0.0005	0.036	< 0.0002	< 0.005	1.31	< 0.0025	< 0.002	
7/6/2017		2.4	160	190	0.14	7.33	130	1100	< 0.003	0.69	0.056	< 0.001	< 0.0005	0.0057	< 0.001	0.14	< 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	< 0.003	0.86	0.036	< 0.001	< 0.0005	0.008	< 0.001	0.26	< 0.00071	0.037	< 0.0002	< 0.0054	0.718	< 0.0025	< 0.002	
11/30/2017		2.2	170	200	0.14	6.99	93	1100	< 0.003	0.59	0.05	< ^ 0.001	< 0.0005	< 0.005	< 0.001	0.14	< 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	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	NA
5/15/2019		3.2	120	260	0.13	7.14	31	1000	< 0.003	0.3	0.048	< 0.001	< 0.0005	< 0.005	< 0.001	0.13	< 0.0005	0.038	< 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	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	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	NA
5/6/2021		2.4	130	120	0.15	7.13	45	770	< 0.003	0.440	0.044	< 0.001	< 0.0005	< 0.005	< 0.001	0.15	< 0.0005	0.038	< 0.0002	< 0.005	1.7	< 0.0025	< 0.002	
MW-14 up-gradient		11/5/2015	1.4	150	190	0.19	6.78	140	1000	< 0.003	0.19	0.052	^< 0.001	< 0.0005	0.01	0.0012	0.19	< 0.0005	0.025	< 0.0002	< 0.005	0.7087	< 0.0025	< 0.002
		3/2/2016	0.93	150	110	0.17	7.24	150	870	0.015	4.3	0.12	< 0.001	< 0.0005	1.1	0.0036	0.17	0.00068	0.019	< 0.0002	< 0.005	1.36	< 0.0025	< 0.002
		5/5/2016	1.2	170	120	0.18	7.17	190	980	< 0.003	0.35	0.054	< 0.001	< 0.0005	0.017	0.0014	0.18	< 0.0005	0.021	< 0.0002	< 0.005	< 0.488	< 0.0025	< 0.002
	8/26/2016	1.5	200	210	0.12	7.00	190	1300	< 0.003	1.0	0.058	< 0.001	< 0.0005	0.021	< 0.001	0.12	< 0.0005	0.026	< 0.0002	< 0.005	0.75	< 0.0025	< 0.002	
	12/7/2016	0.95	240	340	0.25	6.81	120	1100	0.0096	19	0.42	< 0.001	0.00089	4.6	< 0.0025	0.25	0.00084	0.022	< 0.0002	0.0094	< 0.866	0.014	< 0.002	
	2/23/2017	0.73	150	99	0.19	6.88	110	730	0.0061	9.3	0.36	< 0.001	0.001	4.6	0.0070	0.19	0.00095	0.017	< 0.0002	< 0.005	< 0.514	0.031	< 0.002	
	5/18/2017	0.81	120	130	0.3	7.62	70	590	0.0035	3.3	0.44	^< 0.001	0.002	4.8	0.0041	0.3	0.00054	0.013	0.00043	< 0.005	0.779	< 0.0025	< 0.002	
	7/6/2017	1.2	190	180	0.13	7.29	190	1300	< 0.003	0.4	0.071	< 0.001	< 0.0005	0.026	0.0013	0.13	< 0.0005	0.034	< 0.0002	< 0.005	0.549	< 0.0025	< 0.002	
	9/13/2017	2.3	180	190	0.15	7.20	270	1200	< 0.003	0.52	0.065	< 0.001	< 0.0005	0.0078	< 0.0010	0.15	< 0.0005	0.025	< 0.0002	< 0.005	< 0.359	< 0.0025	< 0.002	
	11/30/2017	0.85	170	130	0.19	7.33	99	940	0.0093	21	0.27	< ^ 0.001	0.00068	3.2	0.0021	0.19	< 0.0005	0.023	< 0.0002	0.0055	1.01	0.0072	< 0.002	
	6/1/2018	0.54	100	57	0.28	6.89	42	410	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/6/2018	0.98	160	110	0.24	7.36	53	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/15/2019	0.69	110	190	0.23	7.25	35	780	0.0036	2.7	0.091	< 0.001	< 0.0005	0.71	< 0.0010									

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
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
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
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	3.6
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	4.2
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
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
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

ANALYTICAL REPORT

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

Laboratory Job ID: 500-198722-1
Client Project/Site: Waukegan CCR

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

Attn: Richard Gnat



Authorized for release by:
5/26/2021 3:38:45 PM

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LINKS

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



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Case Narrative

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

Job ID: 500-198722-1

Job ID: 500-198722-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

**Job Narrative
500-198722-1**

Comments

No additional comments.

Receipt

The samples were received on 5/6/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.0° C, 2.1° C and 2.1° C.

Metals

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

General Chemistry

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

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Detection Summary

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

Job ID: 500-198722-1

Client Sample ID: MW-01

Lab Sample ID: 500-198722-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.025		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.040		0.0025		mg/L	1		6020A	Total Recoverable
Calcium	66		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.016		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	430		10		mg/L	1		SM 2540C	Total/NA
Chloride	67		4.0		mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.22		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	180		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-02

Lab Sample ID: 500-198722-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0080		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.030		0.0025		mg/L	1		6020A	Total Recoverable
Boron	4.6		1.0		mg/L	20		6020A	Total Recoverable
Calcium	70		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.023		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	420		10		mg/L	1		SM 2540C	Total/NA
Chloride	37		4.0		mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.72		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	190		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-03

Lab Sample ID: 500-198722-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0066		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.035		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.3		0.50		mg/L	10		6020A	Total Recoverable
Calcium	110		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.016		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.0065		0.0025		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	550		10		mg/L	1		SM 2540C	Total/NA
Chloride	43		4.0		mg/L	2		SM 4500 Cl- E	Total/NA
Fluoride	0.23		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	210		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-04

Lab Sample ID: 500-198722-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0069		0.0010		mg/L	1		6020A	Total Recoverable

This Detection Summary does not include radiochemical test results.

Euofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-198722-1

Client Sample ID: MW-04 (Continued)

Lab Sample ID: 500-198722-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.032		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.4		1.0		mg/L	20		6020A	Total Recoverable
Calcium	75		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.056		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.0041		0.0025		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	530		10		mg/L	1		SM 2540C	Total/NA
Chloride	17		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.91		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	190		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-09

Lab Sample ID: 500-198722-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.040		0.010		mg/L	1		6010C	Total Recoverable
Barium	0.0075		0.0025		mg/L	1		6020A	Total Recoverable
Boron	31		0.50		mg/L	10		6020A	Total Recoverable
Calcium	170		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.47		0.0050		mg/L	1		6020A	Total Recoverable
Selenium	0.023		0.0025		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	910		10		mg/L	1		SM 2540C	Total/NA
Chloride	35		2.0		mg/L	1		SM 4500 Cl- E	Total/NA
Fluoride	0.12		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	420		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-11

Lab Sample ID: 500-198722-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.038		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.44		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.044		0.0025		mg/L	1		6020A	Total Recoverable
Boron	2.4		0.50		mg/L	10		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	770		10		mg/L	1		SM 2540C	Total/NA
Chloride	120		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.15		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	45		15		mg/L	3		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

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

Job ID: 500-198722-1

Client Sample ID: MW-14

Lab Sample ID: 500-198722-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.015		0.010		mg/L	1		6010C	Total Recoverable
Arsenic	0.91		0.0010		mg/L	1		6020A	Total Recoverable
Barium	0.050		0.0025		mg/L	1		6020A	Total Recoverable
Boron	0.45		0.050		mg/L	1		6020A	Total Recoverable
Calcium	130		0.20		mg/L	1		6020A	Total Recoverable
Chromium	0.037		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	390		10		mg/L	1		SM 2540C	Total/NA
Chloride	41		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.19		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	28		5.0		mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 500-198722-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.010		mg/L	1		6010C	Total Recoverable
Barium	0.024		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.1		0.50		mg/L	10		6020A	Total Recoverable
Calcium	120		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.019		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	740		10		mg/L	1		SM 2540C	Total/NA
Chloride	55		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.68		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	300		50		mg/L	10		SM 4500 SO4 E	Total/NA

Client Sample ID: Duplicate

Lab Sample ID: 500-198722-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.010		mg/L	1		6010C	Total Recoverable
Barium	0.025		0.0025		mg/L	1		6020A	Total Recoverable
Boron	3.2		0.50		mg/L	10		6020A	Total Recoverable
Calcium	120		0.20		mg/L	1		6020A	Total Recoverable
Molybdenum	0.019		0.0050		mg/L	1		6020A	Total Recoverable
Total Dissolved Solids	730		10		mg/L	1		SM 2540C	Total/NA
Chloride	55		10		mg/L	5		SM 4500 Cl- E	Total/NA
Fluoride	0.67		0.10		mg/L	1		SM 4500 F C	Total/NA
Sulfate	300		50		mg/L	10		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

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

Job ID: 500-198722-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 Cl- E	Chloride, Total	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 SO4 E	Sulfate, Total	SM	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-198722-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198722-1	MW-01	Water	05/05/21 15:58	05/06/21 09:50	
500-198722-2	MW-02	Water	05/05/21 15:01	05/06/21 09:50	
500-198722-3	MW-03	Water	05/05/21 13:56	05/06/21 09:50	
500-198722-4	MW-04	Water	05/05/21 13:00	05/06/21 09:50	
500-198722-5	MW-09	Water	05/06/21 12:32	05/07/21 10:00	
500-198722-6	MW-11	Water	05/06/21 14:20	05/07/21 10:00	
500-198722-7	MW-14	Water	05/06/21 15:22	05/07/21 10:00	
500-198722-8	MW-16	Water	05/06/21 10:23	05/07/21 10:00	
500-198722-9	Duplicate	Water	05/06/21 00:00	05/07/21 10:00	

Client Sample Results

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

Job ID: 500-198722-1

Client Sample ID: MW-01

Lab Sample ID: 500-198722-1

Date Collected: 05/05/21 15:58

Matrix: Water

Date Received: 05/06/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:26	05/14/21 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 02:26	1
Arsenic	0.025		0.0010		mg/L		05/14/21 08:26	05/15/21 02:26	1
Barium	0.040		0.0025		mg/L		05/14/21 08:26	05/15/21 02:26	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:26	1
Boron	<5.0		5.0		mg/L		05/14/21 08:26	05/17/21 13:19	100
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:26	1
Calcium	66		0.20		mg/L		05/14/21 08:26	05/15/21 02:26	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:26	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:26	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:26	1
Molybdenum	0.016		0.0050		mg/L		05/14/21 08:26	05/15/21 02:26	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:26	05/15/21 02:26	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 02:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 07:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	430		10		mg/L			05/07/21 06:38	1
Chloride	67		4.0		mg/L			05/26/21 14:04	2
Fluoride	0.22		0.10		mg/L			05/18/21 05:21	1
Sulfate	180		50		mg/L			05/17/21 13:22	10

Client Sample ID: MW-02

Lab Sample ID: 500-198722-2

Date Collected: 05/05/21 15:01

Matrix: Water

Date Received: 05/06/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:26	05/14/21 16:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 02:29	1
Arsenic	0.0080		0.0010		mg/L		05/14/21 08:26	05/15/21 02:29	1
Barium	0.030		0.0025		mg/L		05/14/21 08:26	05/15/21 02:29	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:29	1
Boron	4.6		1.0		mg/L		05/14/21 08:26	05/17/21 13:23	20
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:29	1
Calcium	70		0.20		mg/L		05/14/21 08:26	05/15/21 02:29	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:29	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:29	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:29	1
Molybdenum	0.023		0.0050		mg/L		05/14/21 08:26	05/15/21 02:29	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:26	05/15/21 02:29	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-198722-1

Client Sample ID: MW-02

Lab Sample ID: 500-198722-2

Date Collected: 05/05/21 15:01

Matrix: Water

Date Received: 05/06/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 02:29	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	420		10		mg/L			05/12/21 02:14	1
Chloride	37		4.0		mg/L			05/26/21 14:05	2
Fluoride	0.72		0.10		mg/L			05/18/21 05:42	1
Sulfate	190		50		mg/L			05/17/21 13:23	10

Client Sample ID: MW-03

Lab Sample ID: 500-198722-3

Date Collected: 05/05/21 13:56

Matrix: Water

Date Received: 05/06/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:26	05/14/21 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 02:33	1
Arsenic	0.0066		0.0010		mg/L		05/14/21 08:26	05/15/21 02:33	1
Barium	0.035		0.0025		mg/L		05/14/21 08:26	05/15/21 02:33	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:33	1
Boron	3.3		0.50		mg/L		05/14/21 08:26	05/17/21 13:26	10
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:33	1
Calcium	110		0.20		mg/L		05/14/21 08:26	05/15/21 02:33	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:33	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:33	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:33	1
Molybdenum	0.016		0.0050		mg/L		05/14/21 08:26	05/15/21 02:33	1
Selenium	0.0065		0.0025		mg/L		05/14/21 08:26	05/15/21 02:33	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 02:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 07:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	550		10		mg/L			05/12/21 02:17	1
Chloride	43		4.0		mg/L			05/26/21 14:05	2
Fluoride	0.23		0.10		mg/L			05/18/21 05:48	1
Sulfate	210		50		mg/L			05/17/21 13:24	10

Client Sample Results

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

Job ID: 500-198722-1

Client Sample ID: MW-04

Lab Sample ID: 500-198722-4

Date Collected: 05/05/21 13:00

Matrix: Water

Date Received: 05/06/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:26	05/14/21 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 02:36	1
Arsenic	0.0069		0.0010		mg/L		05/14/21 08:26	05/15/21 02:36	1
Barium	0.032		0.0025		mg/L		05/14/21 08:26	05/15/21 02:36	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:36	1
Boron	3.4		1.0		mg/L		05/14/21 08:26	05/17/21 13:30	20
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:36	1
Calcium	75		0.20		mg/L		05/14/21 08:26	05/15/21 02:36	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:36	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:36	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:36	1
Molybdenum	0.056		0.0050		mg/L		05/14/21 08:26	05/15/21 02:36	1
Selenium	0.0041		0.0025		mg/L		05/14/21 08:26	05/15/21 02:36	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 02:36	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	530		10		mg/L			05/12/21 02:19	1
Chloride	17		2.0		mg/L			05/26/21 14:04	1
Fluoride	0.91		0.10		mg/L			05/18/21 05:52	1
Sulfate	190		50		mg/L			05/17/21 13:24	10

Client Sample ID: MW-09

Lab Sample ID: 500-198722-5

Date Collected: 05/06/21 12:32

Matrix: Water

Date Received: 05/07/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.040		0.010		mg/L		05/14/21 08:26	05/14/21 16:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 02:47	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:47	1
Barium	0.0075		0.0025		mg/L		05/14/21 08:26	05/15/21 02:47	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:47	1
Boron	31		0.50		mg/L		05/14/21 08:26	05/17/21 13:33	10
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:47	1
Calcium	170		0.20		mg/L		05/14/21 08:26	05/15/21 02:47	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:47	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:47	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:47	1
Molybdenum	0.47		0.0050		mg/L		05/14/21 08:26	05/15/21 02:47	1
Selenium	0.023		0.0025		mg/L		05/14/21 08:26	05/15/21 02:47	1

Eurofins TestAmerica, Chicago

Client Sample Results

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

Job ID: 500-198722-1

Client Sample ID: MW-09

Lab Sample ID: 500-198722-5

Date Collected: 05/06/21 12:32

Matrix: Water

Date Received: 05/07/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 02:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	910		10		mg/L			05/12/21 02:22	1
Chloride	35		2.0		mg/L			05/26/21 14:05	1
Fluoride	0.12		0.10		mg/L			05/18/21 05:59	1
Sulfate	420		50		mg/L			05/17/21 13:24	10

Client Sample ID: MW-11

Lab Sample ID: 500-198722-6

Date Collected: 05/06/21 14:20

Matrix: Water

Date Received: 05/07/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.038		0.010		mg/L		05/14/21 08:26	05/14/21 16:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 02:50	1
Arsenic	0.44		0.0010		mg/L		05/14/21 08:26	05/15/21 02:50	1
Barium	0.044		0.0025		mg/L		05/14/21 08:26	05/15/21 02:50	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:50	1
Boron	2.4		0.50		mg/L		05/14/21 08:26	05/17/21 13:38	10
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:50	1
Calcium	130		0.20		mg/L		05/14/21 08:26	05/15/21 02:50	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:50	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:50	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:50	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:50	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:26	05/15/21 02:50	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 02:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	770		10		mg/L			05/12/21 02:25	1
Chloride	120		10		mg/L			05/26/21 14:06	5
Fluoride	0.15		0.10		mg/L			05/18/21 06:05	1
Sulfate	45		15		mg/L			05/17/21 13:25	3

Client Sample Results

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

Job ID: 500-198722-1

Client Sample ID: MW-14
Date Collected: 05/06/21 15:22
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.015		0.010		mg/L		05/14/21 08:26	05/14/21 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 02:54	1
Arsenic	0.91		0.0010		mg/L		05/14/21 08:26	05/15/21 02:54	1
Barium	0.050		0.0025		mg/L		05/14/21 08:26	05/15/21 02:54	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:54	1
Boron	0.45		0.050		mg/L		05/14/21 08:26	05/17/21 13:41	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:54	1
Calcium	130		0.20		mg/L		05/14/21 08:26	05/15/21 02:54	1
Chromium	0.037		0.0050		mg/L		05/14/21 08:26	05/15/21 02:54	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:54	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:54	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:54	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:26	05/15/21 02:54	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 02:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	390		10		mg/L			05/12/21 02:27	1
Chloride	41		10		mg/L			05/26/21 14:06	5
Fluoride	0.19		0.10		mg/L			05/18/21 06:26	1
Sulfate	28		5.0		mg/L			05/17/21 15:01	1

Client Sample ID: MW-16
Date Collected: 05/06/21 10:23
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		05/14/21 08:26	05/14/21 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 02:57	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:57	1
Barium	0.024		0.0025		mg/L		05/14/21 08:26	05/15/21 02:57	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:57	1
Boron	3.1		0.50		mg/L		05/14/21 08:26	05/17/21 13:45	10
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:57	1
Calcium	120		0.20		mg/L		05/14/21 08:26	05/15/21 02:57	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 02:57	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 02:57	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 02:57	1
Molybdenum	0.019		0.0050		mg/L		05/14/21 08:26	05/15/21 02:57	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:26	05/15/21 02:57	1

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Client Sample Results

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

Job ID: 500-198722-1

Client Sample ID: MW-16

Lab Sample ID: 500-198722-8

Date Collected: 05/06/21 10:23

Matrix: Water

Date Received: 05/07/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 02:57	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	740		10		mg/L			05/12/21 02:30	1
Chloride	55		10		mg/L			05/26/21 14:06	5
Fluoride	0.68		0.10		mg/L			05/18/21 06:33	1
Sulfate	300		50		mg/L			05/17/21 13:26	10

Client Sample ID: Duplicate

Lab Sample ID: 500-198722-9

Date Collected: 05/06/21 00:00

Matrix: Water

Date Received: 05/07/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		05/14/21 08:26	05/14/21 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 03:01	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 03:01	1
Barium	0.025		0.0025		mg/L		05/14/21 08:26	05/15/21 03:01	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 03:01	1
Boron	3.2		0.50		mg/L		05/14/21 08:26	05/17/21 13:48	10
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 03:01	1
Calcium	120		0.20		mg/L		05/14/21 08:26	05/15/21 03:01	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 03:01	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 03:01	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 03:01	1
Molybdenum	0.019		0.0050		mg/L		05/14/21 08:26	05/15/21 03:01	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:26	05/15/21 03:01	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 03:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/19/21 09:05	05/20/21 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	730		10		mg/L			05/12/21 02:32	1
Chloride	55		10		mg/L			05/26/21 14:16	5
Fluoride	0.67		0.10		mg/L			05/18/21 06:40	1
Sulfate	300		50		mg/L			05/17/21 13:27	10

Definitions/Glossary

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

Job ID: 500-198722-1

Glossary

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

QC Association Summary

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

Job ID: 500-198722-1

Metals

Prep Batch: 598870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total Recoverable	Water	3005A	
500-198722-2	MW-02	Total Recoverable	Water	3005A	
500-198722-3	MW-03	Total Recoverable	Water	3005A	
500-198722-4	MW-04	Total Recoverable	Water	3005A	
500-198722-5	MW-09	Total Recoverable	Water	3005A	
500-198722-6	MW-11	Total Recoverable	Water	3005A	
500-198722-7	MW-14	Total Recoverable	Water	3005A	
500-198722-8	MW-16	Total Recoverable	Water	3005A	
500-198722-9	Duplicate	Total Recoverable	Water	3005A	
MB 500-598870/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-598870/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 599208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total Recoverable	Water	6010C	598870
500-198722-2	MW-02	Total Recoverable	Water	6010C	598870
500-198722-3	MW-03	Total Recoverable	Water	6010C	598870
500-198722-4	MW-04	Total Recoverable	Water	6010C	598870
500-198722-5	MW-09	Total Recoverable	Water	6010C	598870
500-198722-6	MW-11	Total Recoverable	Water	6010C	598870
500-198722-7	MW-14	Total Recoverable	Water	6010C	598870
500-198722-8	MW-16	Total Recoverable	Water	6010C	598870
500-198722-9	Duplicate	Total Recoverable	Water	6010C	598870
MB 500-598870/1-A	Method Blank	Total Recoverable	Water	6010C	598870
LCS 500-598870/2-A	Lab Control Sample	Total Recoverable	Water	6010C	598870

Analysis Batch: 599245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total Recoverable	Water	6020A	598870
500-198722-2	MW-02	Total Recoverable	Water	6020A	598870
500-198722-3	MW-03	Total Recoverable	Water	6020A	598870
500-198722-4	MW-04	Total Recoverable	Water	6020A	598870
500-198722-5	MW-09	Total Recoverable	Water	6020A	598870
500-198722-6	MW-11	Total Recoverable	Water	6020A	598870
500-198722-7	MW-14	Total Recoverable	Water	6020A	598870
500-198722-8	MW-16	Total Recoverable	Water	6020A	598870
500-198722-9	Duplicate	Total Recoverable	Water	6020A	598870
MB 500-598870/1-A	Method Blank	Total Recoverable	Water	6020A	598870
LCS 500-598870/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598870

Analysis Batch: 599524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total Recoverable	Water	6020A	598870
500-198722-2	MW-02	Total Recoverable	Water	6020A	598870
500-198722-3	MW-03	Total Recoverable	Water	6020A	598870
500-198722-4	MW-04	Total Recoverable	Water	6020A	598870
500-198722-5	MW-09	Total Recoverable	Water	6020A	598870
500-198722-6	MW-11	Total Recoverable	Water	6020A	598870
500-198722-7	MW-14	Total Recoverable	Water	6020A	598870
500-198722-8	MW-16	Total Recoverable	Water	6020A	598870
500-198722-9	Duplicate	Total Recoverable	Water	6020A	598870

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QC Association Summary

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

Job ID: 500-198722-1

Metals (Continued)

Analysis Batch: 599524 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-598870/1-A	Method Blank	Total Recoverable	Water	6020A	598870
LCS 500-598870/2-A	Lab Control Sample	Total Recoverable	Water	6020A	598870

Prep Batch: 599726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total/NA	Water	7470A	
500-198722-2	MW-02	Total/NA	Water	7470A	
500-198722-3	MW-03	Total/NA	Water	7470A	
500-198722-4	MW-04	Total/NA	Water	7470A	
500-198722-5	MW-09	Total/NA	Water	7470A	
500-198722-6	MW-11	Total/NA	Water	7470A	
500-198722-7	MW-14	Total/NA	Water	7470A	
500-198722-8	MW-16	Total/NA	Water	7470A	
500-198722-9	Duplicate	Total/NA	Water	7470A	
MB 500-599726/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-599726/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-198722-6 MS	MW-11	Total/NA	Water	7470A	
500-198722-6 MSD	MW-11	Total/NA	Water	7470A	
500-198722-6 DU	MW-11	Total/NA	Water	7470A	

Analysis Batch: 599974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total/NA	Water	7470A	599726
500-198722-2	MW-02	Total/NA	Water	7470A	599726
500-198722-3	MW-03	Total/NA	Water	7470A	599726
500-198722-4	MW-04	Total/NA	Water	7470A	599726
500-198722-5	MW-09	Total/NA	Water	7470A	599726
500-198722-6	MW-11	Total/NA	Water	7470A	599726
500-198722-7	MW-14	Total/NA	Water	7470A	599726
500-198722-8	MW-16	Total/NA	Water	7470A	599726
500-198722-9	Duplicate	Total/NA	Water	7470A	599726
MB 500-599726/12-A	Method Blank	Total/NA	Water	7470A	599726
LCS 500-599726/13-A	Lab Control Sample	Total/NA	Water	7470A	599726
500-198722-6 MS	MW-11	Total/NA	Water	7470A	599726
500-198722-6 MSD	MW-11	Total/NA	Water	7470A	599726
500-198722-6 DU	MW-11	Total/NA	Water	7470A	599726

General Chemistry

Analysis Batch: 597339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total/NA	Water	SM 2540C	
MB 500-597339/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-597339/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 598219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-2	MW-02	Total/NA	Water	SM 2540C	
500-198722-3	MW-03	Total/NA	Water	SM 2540C	
500-198722-4	MW-04	Total/NA	Water	SM 2540C	
500-198722-5	MW-09	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-198722-1

General Chemistry (Continued)

Analysis Batch: 598219 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-6	MW-11	Total/NA	Water	SM 2540C	
500-198722-7	MW-14	Total/NA	Water	SM 2540C	
500-198722-8	MW-16	Total/NA	Water	SM 2540C	
500-198722-9	Duplicate	Total/NA	Water	SM 2540C	
MB 500-598219/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-598219/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 599407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-198722-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-198722-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-198722-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-198722-5	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-198722-6	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-198722-7	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-198722-8	MW-16	Total/NA	Water	SM 4500 SO4 E	
500-198722-9	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-599407/50	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-599407/51	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 599490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total/NA	Water	SM 4500 F C	
500-198722-2	MW-02	Total/NA	Water	SM 4500 F C	
500-198722-3	MW-03	Total/NA	Water	SM 4500 F C	
500-198722-4	MW-04	Total/NA	Water	SM 4500 F C	
500-198722-5	MW-09	Total/NA	Water	SM 4500 F C	
500-198722-6	MW-11	Total/NA	Water	SM 4500 F C	
500-198722-7	MW-14	Total/NA	Water	SM 4500 F C	
500-198722-8	MW-16	Total/NA	Water	SM 4500 F C	
500-198722-9	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-599490/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-599490/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-198722-1 MS	MW-01	Total/NA	Water	SM 4500 F C	
500-198722-1 MSD	MW-01	Total/NA	Water	SM 4500 F C	

Analysis Batch: 600991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-198722-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-198722-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-198722-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-198722-5	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-198722-6	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-198722-7	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-198722-8	MW-16	Total/NA	Water	SM 4500 Cl- E	
500-198722-9	Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-600991/31	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-600991/32	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-198722-1 MS	MW-01	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

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

Job ID: 500-198722-1

General Chemistry (Continued)

Analysis Batch: 600991 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1 MSD	MW-01	Total/NA	Water	SM 4500 Cl- E	

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

QC Sample Results

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

Job ID: 500-198722-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-598870/1-A
Matrix: Water
Analysis Batch: 599208

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/14/21 08:26	05/14/21 16:07	1

Lab Sample ID: LCS 500-598870/2-A
Matrix: Water
Analysis Batch: 599208

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.535		mg/L		107	80 - 120

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-598870/1-A
Matrix: Water
Analysis Batch: 599245

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/14/21 08:26	05/15/21 01:23	1
Arsenic	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 01:23	1
Barium	<0.0025		0.0025		mg/L		05/14/21 08:26	05/15/21 01:23	1
Beryllium	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 01:23	1
Cadmium	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 01:23	1
Calcium	<0.20		0.20		mg/L		05/14/21 08:26	05/15/21 01:23	1
Chromium	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 01:23	1
Cobalt	<0.0010		0.0010		mg/L		05/14/21 08:26	05/15/21 01:23	1
Lead	<0.00050		0.00050		mg/L		05/14/21 08:26	05/15/21 01:23	1
Molybdenum	<0.0050		0.0050		mg/L		05/14/21 08:26	05/15/21 01:23	1
Selenium	<0.0025		0.0025		mg/L		05/14/21 08:26	05/15/21 01:23	1
Thallium	<0.0020		0.0020		mg/L		05/14/21 08:26	05/15/21 01:23	1

Lab Sample ID: MB 500-598870/1-A
Matrix: Water
Analysis Batch: 599524

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 598870

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		05/14/21 08:26	05/17/21 12:34	1

Lab Sample ID: LCS 500-598870/2-A
Matrix: Water
Analysis Batch: 599245

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.500	0.505		mg/L		101	80 - 120
Arsenic	0.100	0.0952		mg/L		95	80 - 120
Barium	2.00	1.98		mg/L		99	80 - 120
Beryllium	0.0500	0.0467		mg/L		93	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	9.82		mg/L		98	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.100	0.108		mg/L		108	80 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

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

Job ID: 500-198722-1

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

Lab Sample ID: LCS 500-598870/2-A
Matrix: Water
Analysis Batch: 599245

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Molybdenum	1.00	0.946		mg/L		95	80 - 120
Selenium	0.100	0.0948		mg/L		95	80 - 120
Thallium	0.100	0.111		mg/L		111	80 - 120

Lab Sample ID: LCS 500-598870/2-A
Matrix: Water
Analysis Batch: 599524

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 598870

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	1.00	1.03		mg/L		103	80 - 120

Method: 7470A - Mercury (CVAA)

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

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

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

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

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

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

Lab Sample ID: 500-198722-6 MS
Matrix: Water
Analysis Batch: 599974

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 599726

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

Lab Sample ID: 500-198722-6 MSD
Matrix: Water
Analysis Batch: 599974

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 599726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	0	20

Lab Sample ID: 500-198722-6 DU
Matrix: Water
Analysis Batch: 599974

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 599726

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

QC Sample Results

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

Job ID: 500-198722-1

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

Lab Sample ID: MB 500-597339/1
Matrix: Water
Analysis Batch: 597339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/07/21 05:39	1

Lab Sample ID: LCS 500-597339/2
Matrix: Water
Analysis Batch: 597339

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	236		mg/L		94	80 - 120

Lab Sample ID: MB 500-598219/1
Matrix: Water
Analysis Batch: 598219

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/12/21 01:54	1

Lab Sample ID: LCS 500-598219/2
Matrix: Water
Analysis Batch: 598219

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	248		mg/L		99	80 - 120

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-600991/31
Matrix: Water
Analysis Batch: 600991

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/26/21 14:03	1

Lab Sample ID: LCS 500-600991/32
Matrix: Water
Analysis Batch: 600991

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	20.5		mg/L		102	85 - 115

Lab Sample ID: 500-198722-1 MS
Matrix: Water
Analysis Batch: 600991

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	67		20.0	89.3		mg/L		113	75 - 125

QC Sample Results

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

Job ID: 500-198722-1

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

Lab Sample ID: 500-198722-1 MSD
Matrix: Water
Analysis Batch: 600991

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	67		20.0	89.4		mg/L		113	75 - 125	0	20

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-599490/3
Matrix: Water
Analysis Batch: 599490

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/18/21 05:07	1

Lab Sample ID: LCS 500-599490/4
Matrix: Water
Analysis Batch: 599490

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	11.3		mg/L		113	80 - 120

Lab Sample ID: 500-198722-1 MS
Matrix: Water
Analysis Batch: 599490

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.22		5.00	5.57		mg/L		107	75 - 125

Lab Sample ID: 500-198722-1 MSD
Matrix: Water
Analysis Batch: 599490

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.22		5.00	5.59		mg/L		107	75 - 125	0	20

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-599407/50
Matrix: Water
Analysis Batch: 599407

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/17/21 13:18	1

Lab Sample ID: LCS 500-599407/51
Matrix: Water
Analysis Batch: 599407

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.3		mg/L		101	80 - 120

Lab Chronicle

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

Job ID: 500-198722-1

Client Sample ID: MW-01
Date Collected: 05/05/21 15:58
Date Received: 05/06/21 09:50

Lab Sample ID: 500-198722-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:15	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 02:26	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		100	599524	05/17/21 13:19	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 07:27	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	597339	05/07/21 06:38	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	600991	05/26/21 14:04	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 05:21	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	599407	05/17/21 13:22	MS	TAL CHI

Client Sample ID: MW-02
Date Collected: 05/05/21 15:01
Date Received: 05/06/21 09:50

Lab Sample ID: 500-198722-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:18	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 02:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	599524	05/17/21 13:23	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 07:29	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598219	05/12/21 02:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	600991	05/26/21 14:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 05:42	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	599407	05/17/21 13:23	MS	TAL CHI

Client Sample ID: MW-03
Date Collected: 05/05/21 13:56
Date Received: 05/06/21 09:50

Lab Sample ID: 500-198722-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:22	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 02:33	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 13:26	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 07:31	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-198722-1

Client Sample ID: MW-03

Lab Sample ID: 500-198722-3

Date Collected: 05/05/21 13:56

Matrix: Water

Date Received: 05/06/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	598219	05/12/21 02:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		2	600991	05/26/21 14:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 05:48	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	599407	05/17/21 13:24	MS	TAL CHI

Client Sample ID: MW-04

Lab Sample ID: 500-198722-4

Date Collected: 05/05/21 13:00

Matrix: Water

Date Received: 05/06/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:25	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 02:36	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	599524	05/17/21 13:30	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 07:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598219	05/12/21 02:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	600991	05/26/21 14:04	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 05:52	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	599407	05/17/21 13:24	MS	TAL CHI

Client Sample ID: MW-09

Lab Sample ID: 500-198722-5

Date Collected: 05/06/21 12:32

Matrix: Water

Date Received: 05/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:29	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 02:47	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 13:33	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 07:36	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598219	05/12/21 02:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		1	600991	05/26/21 14:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 05:59	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	599407	05/17/21 13:24	MS	TAL CHI

Lab Chronicle

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

Job ID: 500-198722-1

Client Sample ID: MW-11
Date Collected: 05/06/21 14:20
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:40	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 02:50	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 13:38	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:25	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598219	05/12/21 02:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	600991	05/26/21 14:06	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 06:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		3	599407	05/17/21 13:25	MS	TAL CHI

Client Sample ID: MW-14
Date Collected: 05/06/21 15:22
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:43	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 02:54	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599524	05/17/21 13:41	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:33	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598219	05/12/21 02:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	600991	05/26/21 14:06	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 06:26	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		1	599407	05/17/21 15:01	MS	TAL CHI

Client Sample ID: MW-16
Date Collected: 05/06/21 10:23
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:47	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 02:57	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 13:45	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:35	MJG	TAL CHI

Eurofins TestAmerica, Chicago

Lab Chronicle

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

Job ID: 500-198722-1

Client Sample ID: MW-16

Lab Sample ID: 500-198722-8

Date Collected: 05/06/21 10:23

Matrix: Water

Date Received: 05/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	598219	05/12/21 02:30	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	600991	05/26/21 14:06	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 06:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	599407	05/17/21 13:26	MS	TAL CHI

Client Sample ID: Duplicate

Lab Sample ID: 500-198722-9

Date Collected: 05/06/21 00:00

Matrix: Water

Date Received: 05/07/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	599208	05/14/21 16:51	JJB	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	599245	05/15/21 03:01	FXG	TAL CHI
Total Recoverable	Prep	3005A			598870	05/14/21 08:26	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	599524	05/17/21 13:48	FXG	TAL CHI
Total/NA	Prep	7470A			599726	05/19/21 09:05	MJG	TAL CHI
Total/NA	Analysis	7470A		1	599974	05/20/21 08:42	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	598219	05/12/21 02:32	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	600991	05/26/21 14:16	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	599490	05/18/21 06:40	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	599407	05/17/21 13:27	MS	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-198722-1

Laboratory: Eurofins TestAmerica, Chicago

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

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

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

Chain of Custody Record 490573



Environment Testing
TestAmerica

Address _____

Regulatory Program: DW NPDES RCRA Other

TAL-9210

Client Contact		Project Manager		Site Contact		Date		COC No	
Company Name: KPR&		Tel/Email: _____		Lab Contact: M. Fabel Dalen		Carrier: FEDEX		COC No _____ of _____ COCs	
Address: 1466 S W Lybom Rd. Ste 1A		Analysis Turnaround Time		Date: 5/5/2021		Sampler		For Lab Use Only	
City/State/Zip: Brookfield / WI 53005		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Date: 5/5/2021		Walk-in Client		Lab Sampling	
Phone: 262-781-0475		TAT if different from Below		Date: 5/10/21		Job / SDG No		Date/Time	
Fax: _____		1 week		Date/Time: 0950		505-198722		5/10/21	
Project Name: Waikagan CCR		2 weeks		Date/Time: _____		Sample Specific Notes		Date/Time: _____	
Site: Waikagan Station		1 day		Date/Time: _____		500-198722 COC		Date/Time: _____	
PO #: 4502048830		2 days		Date/Time: _____		500-198722 COC		Date/Time: _____	
PO #: _____		1 day		Date/Time: _____		500-198722 COC		Date/Time: _____	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Carrier	Company
MW-01	5/5	1558	G	W	S	X	903.0 - Rad 226	FEDEX	KPR&
MW-02	5/5	1501	G	W	S	X	904.0 - Rad 228	FEDEX	KPR&
MW-03	5/5	1356	G	W	S	X	Radium Combined	FEDEX	KPR&
MW-04	5/5	1300	G	W	S	X	6010C, 6020A-2400A	FEDEX	KPR&
						X	FL, CL, sulfate	FEDEX	KPR&
						X	SM4500 - H+ LW	FEDEX	KPR&
						X	2540 - TDS 5/6/21	FEDEX	KPR&

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other _____

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Special Instructions/QC Requirements & Comments: **Appendix III, Appendix IV Metals**

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
M. Fabel Dalen	KPR&	5/5/21 1700	FEDEX	KPR&	5/5/21 1700
Relinquished by	Company	Date/Time	Received by	Company	Date/Time

ORIGIN ID:FEP (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 05MAY21
ACTWT: 63.20 LB
CAD: 6994083/SSFE2201
DIMS: 27x15x15 IN
BILL THIRD PARTY

Part # 158297435
WFE/DT/Screen

TO
TESTAMERICA CHICAGO
2417 BOND ST

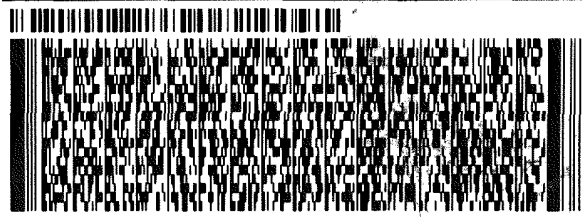


UNIVERSITY PARK IL 60484

500-198722 Wayb

(777) 777-7777
INU:
PO:

REF:
DEPT:



FedEx
Express



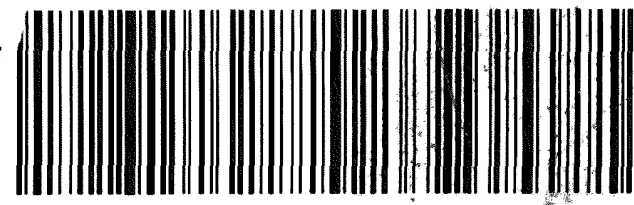
REL#
3785346

TRK# 7868 2367 8273
0201

THU - 06 MAY 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



48 qt.

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ORIGIN ID: FEPA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 06MAY21
ACTWGT: 58.20 LB
CAD: 6994083/SSFE2201
DIMS: 27x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO

TESTAMERICA CHICAGO
2417 BOND ST



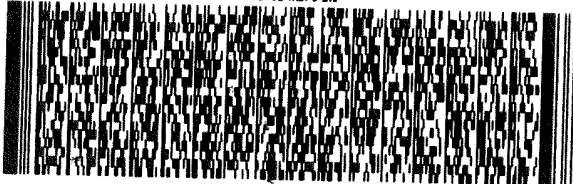
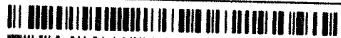
UNIVERSITY PARK IL 60484

500-198722 Wayb

(777) 777-7777

REF:

DEPT:



FedEx
Express



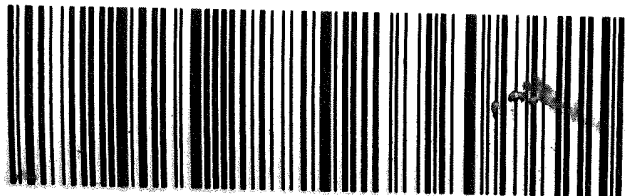
REL#
3785346

TRK# 7868-6987 3669
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FRI - 07 MAY 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



ORIGIN ID: FEPA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 06MAY21
ACTWGT: 61.45 LB
CAD: 6994083/SSFE2201
DIMS: 26x14x13 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO

TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

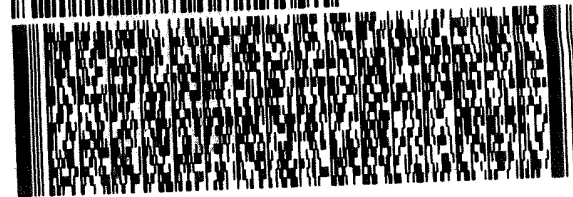
(777) 777-7777

REF:

DEPT:

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FedEx
Express



REL#
3785346

TRK# 7868 6984 1939
0201

FRI - 07 MAY 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



Part # 1562974347 PRTD/EXP 01/22

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198722-1

Login Number: 198722

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9,2.1,2.0,2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	




ANALYTICAL REPORT

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

Laboratory Job ID: 500-198722-2
Client Project/Site: Waukegan CCR

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

Attn: Richard Gnat



Authorized for release by:
6/10/2021 6:40:13 PM

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

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

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

Job ID: 500-198722-2

Job ID: 500-198722-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-198722-2

Comments

No additional comments.

Receipt

The samples were received on 5/6/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.9° C, 2.0° C, 2.1° C and 2.1° C.

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-509491:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-01 (500-198722-1), MW-02 (500-198722-2), MW-03 (500-198722-3), MW-04 (500-198722-4), MW-09 (500-198722-5), MW-11 (500-198722-6), MW-14 (500-198722-7), MW-16 (500-198722-8), Duplicate (500-198722-9), (LCS 160-509491/1-A), (MB 160-509491/23-A) and (500-198722-D-7-B DU)

Methods 904.0, 9320: Radium-228 prep batch 160-509493:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-01 (500-198722-1), MW-02 (500-198722-2), MW-03 (500-198722-3), MW-04 (500-198722-4), MW-09 (500-198722-5), MW-11 (500-198722-6), MW-14 (500-198722-7), MW-16 (500-198722-8), Duplicate (500-198722-9), (LCS 160-509493/1-A), (MB 160-509493/23-A) and (500-198722-D-7-C DU)

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



Method Summary

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

Job ID: 500-198722-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-198722-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-198722-1	MW-01	Water	05/05/21 15:58	05/06/21 09:50	
500-198722-2	MW-02	Water	05/05/21 15:01	05/06/21 09:50	
500-198722-3	MW-03	Water	05/05/21 13:56	05/06/21 09:50	
500-198722-4	MW-04	Water	05/05/21 13:00	05/06/21 09:50	
500-198722-5	MW-09	Water	05/06/21 12:32	05/07/21 10:00	
500-198722-6	MW-11	Water	05/06/21 14:20	05/07/21 10:00	
500-198722-7	MW-14	Water	05/06/21 15:22	05/07/21 10:00	
500-198722-8	MW-16	Water	05/06/21 10:23	05/07/21 10:00	
500-198722-9	Duplicate	Water	05/06/21 00:00	05/07/21 10:00	

Client Sample Results

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

Job ID: 500-198722-2

Client Sample ID: MW-01

Lab Sample ID: 500-198722-1

Date Collected: 05/05/21 15:58

Matrix: Water

Date Received: 05/06/21 09:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.217		0.141	0.143	1.00	0.184	pCi/L	05/13/21 13:36	06/05/21 19:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.3		40 - 110					05/13/21 13:36	06/05/21 19:57	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.602	U	0.338	0.338	1.00	0.602	pCi/L	05/13/21 14:13	06/02/21 09:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.3		40 - 110					05/13/21 14:13	06/02/21 09:39	1
Y Carrier	86.0		40 - 110					05/13/21 14:13	06/02/21 09:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.602	U	0.366	0.367	5.00	0.602	pCi/L		06/10/21 12:31	1

Client Sample ID: MW-02

Lab Sample ID: 500-198722-2

Date Collected: 05/05/21 15:01

Matrix: Water

Date Received: 05/06/21 09:50

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.224		0.149	0.150	1.00	0.204	pCi/L	05/13/21 13:36	06/05/21 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.8		40 - 110					05/13/21 13:36	06/05/21 21:41	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.746		0.398	0.404	1.00	0.590	pCi/L	05/13/21 14:13	06/02/21 09:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	62.8		40 - 110					05/13/21 14:13	06/02/21 09:39	1
Y Carrier	85.2		40 - 110					05/13/21 14:13	06/02/21 09:39	1

Client Sample Results

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

Job ID: 500-198722-2

Client Sample ID: MW-02
Date Collected: 05/05/21 15:01
Date Received: 05/06/21 09:50

Lab Sample ID: 500-198722-2
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.970		0.425	0.431	5.00	0.590	pCi/L		06/10/21 12:31	1

Client Sample ID: MW-03
Date Collected: 05/05/21 13:56
Date Received: 05/06/21 09:50

Lab Sample ID: 500-198722-3
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.267		0.163	0.164	1.00	0.216	pCi/L	05/13/21 13:36	06/05/21 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.6		40 - 110					05/13/21 13:36	06/05/21 21:41	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.631	U	0.392	0.394	1.00	0.631	pCi/L	05/13/21 14:13	06/02/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	61.6		40 - 110					05/13/21 14:13	06/02/21 09:41	1
Y Carrier	83.7		40 - 110					05/13/21 14:13	06/02/21 09:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.689		0.425	0.427	5.00	0.631	pCi/L		06/10/21 12:31	1

Client Sample ID: MW-04
Date Collected: 05/05/21 13:00
Date Received: 05/06/21 09:50

Lab Sample ID: 500-198722-4
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.252	U	0.156	0.156	1.00	0.252	pCi/L	05/13/21 13:36	06/05/21 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	50.5		40 - 110					05/13/21 13:36	06/05/21 21:41	1

Client Sample Results

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

Job ID: 500-198722-2

Client Sample ID: MW-04
Date Collected: 05/05/21 13:00
Date Received: 05/06/21 09:50

Lab Sample ID: 500-198722-4
Matrix: Water

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.781	U	0.452	0.452	1.00	0.781	pCi/L	05/13/21 14:13	06/02/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	50.5		40 - 110					05/13/21 14:13	06/02/21 09:41	1
Y Carrier	88.6		40 - 110					05/13/21 14:13	06/02/21 09:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.781	U	0.478	0.478	5.00	0.781	pCi/L		06/10/21 12:31	1

Client Sample ID: MW-09
Date Collected: 05/06/21 12:32
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-5
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.249	U	0.132	0.132	1.00	0.249	pCi/L	05/13/21 13:36	06/05/21 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.2		40 - 110					05/13/21 13:36	06/05/21 21:41	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.614	U	0.351	0.351	1.00	0.614	pCi/L	05/13/21 14:13	06/02/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	59.2		40 - 110					05/13/21 14:13	06/02/21 09:41	1
Y Carrier	82.6		40 - 110					05/13/21 14:13	06/02/21 09:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.614	U	0.375	0.375	5.00	0.614	pCi/L		06/10/21 12:31	1

Client Sample Results

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

Job ID: 500-198722-2

Client Sample ID: MW-11

Lab Sample ID: 500-198722-6

Date Collected: 05/06/21 14:20

Matrix: Water

Date Received: 05/07/21 10:00

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.265		0.165	0.167	1.00	0.210	pCi/L	05/13/21 13:36	06/05/21 21:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.3		40 - 110					05/13/21 13:36	06/05/21 21:41	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.44		0.509	0.526	1.00	0.670	pCi/L	05/13/21 14:13	06/02/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	52.3		40 - 110					05/13/21 14:13	06/02/21 09:41	1
Y Carrier	84.5		40 - 110					05/13/21 14:13	06/02/21 09:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.70		0.535	0.552	5.00	0.670	pCi/L		06/10/21 12:31	1

Client Sample ID: MW-14

Lab Sample ID: 500-198722-7

Date Collected: 05/06/21 15:22

Matrix: Water

Date Received: 05/07/21 10:00

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.291		0.194	0.196	1.00	0.267	pCi/L	05/13/21 13:36	06/05/21 22:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	48.0		40 - 110					05/13/21 13:36	06/05/21 22:18	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.739	U	0.409	0.409	1.00	0.739	pCi/L	05/13/21 14:13	06/02/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	48.0		40 - 110					05/13/21 14:13	06/02/21 09:41	1
Y Carrier	85.2		40 - 110					05/13/21 14:13	06/02/21 09:41	1

Client Sample Results

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

Job ID: 500-198722-2

Client Sample ID: MW-14
Date Collected: 05/06/21 15:22
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-7
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.739	U	0.453	0.454	5.00	0.739	pCi/L		06/10/21 12:31	1

Client Sample ID: MW-16
Date Collected: 05/06/21 10:23
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-8
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.270	U	0.143	0.143	1.00	0.270	pCi/L	05/13/21 13:36	06/05/21 22:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.4		40 - 110					05/13/21 13:36	06/05/21 22:18	1

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.919	U	0.554	0.556	1.00	0.919	pCi/L	05/13/21 14:13	06/02/21 09:41	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	41.4		40 - 110					05/13/21 14:13	06/02/21 09:41	1
Y Carrier	86.0		40 - 110					05/13/21 14:13	06/02/21 09:41	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.919	U	0.572	0.574	5.00	0.919	pCi/L		06/10/21 12:31	1

Client Sample ID: Duplicate
Date Collected: 05/06/21 00:00
Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-9
Matrix: Water

Method: 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	<0.236	U	0.135	0.135	1.00	0.236	pCi/L	05/13/21 13:36	06/05/21 22:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.1		40 - 110					05/13/21 13:36	06/05/21 22:23	1

Client Sample Results

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

Job ID: 500-198722-2

Client Sample ID: Duplicate

Lab Sample ID: 500-198722-9

Date Collected: 05/06/21 00:00

Matrix: Water

Date Received: 05/07/21 10:00

Method: 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	<0.604	U	0.373	0.374	1.00	0.604	pCi/L	05/13/21 14:13	06/02/21 09:42	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	60.1		40 - 110					05/13/21 14:13	06/02/21 09:42	1
Y Carrier	87.5		40 - 110					05/13/21 14:13	06/02/21 09:42	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	<0.604	U	0.397	0.398	5.00	0.604	pCi/L		06/10/21 12:31	1



Definitions/Glossary

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

Job ID: 500-198722-2

Qualifiers

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

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

Job ID: 500-198722-2

Rad

Prep Batch: 509491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total/NA	Water	PrecSep-21	
500-198722-2	MW-02	Total/NA	Water	PrecSep-21	
500-198722-3	MW-03	Total/NA	Water	PrecSep-21	
500-198722-4	MW-04	Total/NA	Water	PrecSep-21	
500-198722-5	MW-09	Total/NA	Water	PrecSep-21	
500-198722-6	MW-11	Total/NA	Water	PrecSep-21	
500-198722-7	MW-14	Total/NA	Water	PrecSep-21	
500-198722-8	MW-16	Total/NA	Water	PrecSep-21	
500-198722-9	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-509491/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-509491/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-198722-7 DU	MW-14	Total/NA	Water	PrecSep-21	

Prep Batch: 509493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-198722-1	MW-01	Total/NA	Water	PrecSep_0	
500-198722-2	MW-02	Total/NA	Water	PrecSep_0	
500-198722-3	MW-03	Total/NA	Water	PrecSep_0	
500-198722-4	MW-04	Total/NA	Water	PrecSep_0	
500-198722-5	MW-09	Total/NA	Water	PrecSep_0	
500-198722-6	MW-11	Total/NA	Water	PrecSep_0	
500-198722-7	MW-14	Total/NA	Water	PrecSep_0	
500-198722-8	MW-16	Total/NA	Water	PrecSep_0	
500-198722-9	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-509493/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-509493/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-198722-7 DU	MW-14	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-198722-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-509491/23-A
Matrix: Water
Analysis Batch: 512993

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509491

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	<0.192	U	0.0962	0.0962	1.00	0.192	pCi/L	05/13/21 13:36	06/06/21 06:57	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	76.0		40 - 110			05/13/21 13:36	06/06/21 06:57	1		

Lab Sample ID: LCS 160-509491/1-A
Matrix: Water
Analysis Batch: 512962

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509491

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.17		1.25	1.00	0.177	pCi/L	98	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	78.1		40 - 110						

Lab Sample ID: 500-198722-7 DU
Matrix: Water
Analysis Batch: 512962

Client Sample ID: MW-14
Prep Type: Total/NA
Prep Batch: 509491

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.291		<0.247	U	0.161	1.00	0.247	pCi/L	0.35	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	50.5		40 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-509493/23-A
Matrix: Water
Analysis Batch: 512429

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 509493

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	<0.549	U	0.301	0.302	1.00	0.549	pCi/L	05/13/21 14:13	06/02/21 09:44	1
Carrier	MB		Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	76.0		40 - 110			05/13/21 14:13	06/02/21 09:44	1		
Y Carrier	84.1		40 - 110			05/13/21 14:13	06/02/21 09:44	1		

QC Sample Results

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

Job ID: 500-198722-2

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

Lab Sample ID: LCS 160-509493/1-A
Matrix: Water
Analysis Batch: 512453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 509493

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	
Radium-228	9.67	8.728		1.11	1.00	0.518	pCi/L	90	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	78.1		40 - 110							
Y Carrier	80.4		40 - 110							

Lab Sample ID: 500-198722-7 DU
Matrix: Water
Analysis Batch: 512453

Client Sample ID: MW-14
Prep Type: Total/NA
Prep Batch: 509493

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	<0.739	U	<0.787	U	0.449	1.00	0.787	pCi/L	0.11	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	50.5		40 - 110							
Y Carrier	83.4		40 - 110							

Lab Chronicle

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

Job ID: 500-198722-2

Client Sample ID: MW-01

Lab Sample ID: 500-198722-1

Date Collected: 05/05/21 15:58

Matrix: Water

Date Received: 05/06/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512962	06/05/21 19:57	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:39	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Client Sample ID: MW-02

Lab Sample ID: 500-198722-2

Date Collected: 05/05/21 15:01

Matrix: Water

Date Received: 05/06/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512962	06/05/21 21:41	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:39	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Client Sample ID: MW-03

Lab Sample ID: 500-198722-3

Date Collected: 05/05/21 13:56

Matrix: Water

Date Received: 05/06/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512962	06/05/21 21:41	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:41	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Client Sample ID: MW-04

Lab Sample ID: 500-198722-4

Date Collected: 05/05/21 13:00

Matrix: Water

Date Received: 05/06/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512962	06/05/21 21:41	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:41	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Lab Chronicle

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

Job ID: 500-198722-2

Client Sample ID: MW-09

Date Collected: 05/06/21 12:32

Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512962	06/05/21 21:41	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:41	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Client Sample ID: MW-11

Date Collected: 05/06/21 14:20

Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512962	06/05/21 21:41	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:41	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Client Sample ID: MW-14

Date Collected: 05/06/21 15:22

Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512962	06/05/21 22:18	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:41	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Client Sample ID: MW-16

Date Collected: 05/06/21 10:23

Date Received: 05/07/21 10:00

Lab Sample ID: 500-198722-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512962	06/05/21 22:18	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:41	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Lab Chronicle

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

Job ID: 500-198722-2

Client Sample ID: Duplicate

Lab Sample ID: 500-198722-9

Date Collected: 05/06/21 00:00

Matrix: Water

Date Received: 05/07/21 10:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PrecSep-21			509491	05/13/21 13:36	LAR	TAL SL
Total/NA	Analysis	903.0		1	512961	06/05/21 22:23	ANW	TAL SL
Total/NA	Prep	PrecSep_0			509493	05/13/21 14:13	LAR	TAL SL
Total/NA	Analysis	904.0		1	512453	06/02/21 09:42	AK	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	513649	06/10/21 12:31	GRW	TAL SL

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 500-198722-2

Laboratory: Eurofins TestAmerica, St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	004553	11-30-21

- 1
- 2
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- 14

ORIGIN ID: FEPA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106
WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 05MAY21
ACTWT: 63.20 LB
CAD: 6994083/SSFE2201
DIMS: 27x15x15 IN
BILL THIRD PARTY

Part # 158297435
WFE/DT/Screen

TO
TESTAMERICA CHICAGO
2417 BOND ST

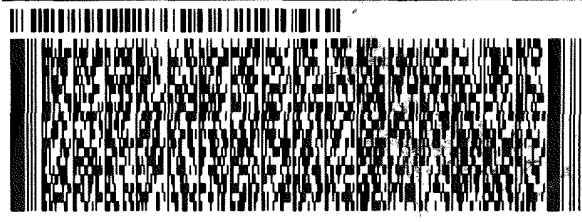


UNIVERSITY PARK IL 60484

500-198722 Wayb

(777) 777-7777
INU:
PO:

REF:
DEPT:



FedEx
Express



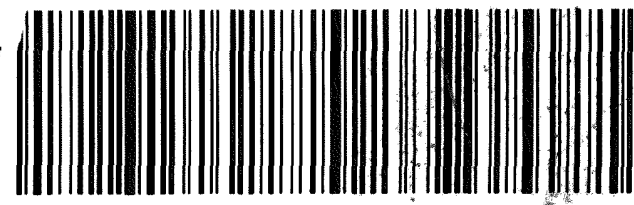
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3785346

TRK# 7868 2367 8273
0201

THU - 06 MAY 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



48 qt.

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ORIGIN ID: FEPA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 06MAY21
ACTWGT: 58.20 LB
CAD: 6994083/SSFE2201
DIMS: 27x13x14 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO

TESTAMERICA CHICAGO
2417 BOND ST



UNIVERSITY PARK IL 60484

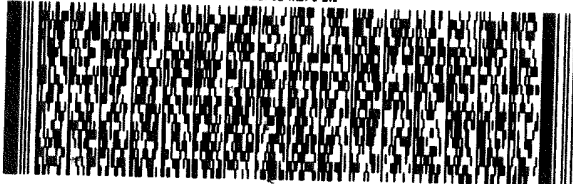
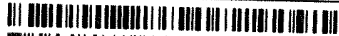
500-198722 Wayb

(777) 777-7777

INU:
PO:

REF:

DEPT:



FedEx
Express



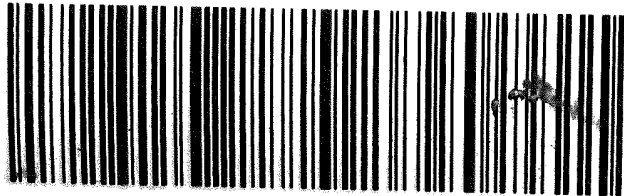
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3785346

TRK# 7868-6987 3669
0201

FRI - 07 MAY 10:30A
PRIORITY OVERNIGHT

79 JOTA

60484
IL-US ORD



ORIGIN ID: FEPA (262) 622-1143
MITCHEL DOLAN
KPRG AND ASSOCIATES
414 PLAZA DR STE 106

SHIP DATE: 06MAY21
ACTWGT: 61.45 LB
CAD: 6994083/SSFE2201
DIMS: 26x14x13 IN

WESTMONT, IL 60559
UNITED STATES US

BILL THIRD PARTY

TO

TESTAMERICA CHICAGO
2417 BOND ST

UNIVERSITY PARK IL 60484

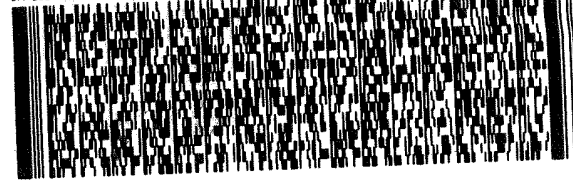
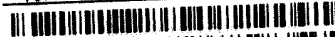
(777) 777-7777

INU:

PO:

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FedEx
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PRIORITY OVERNIGHT

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Part # 1562974347 PRTD/EXP 01/22

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Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mochler, Diana J		Lab PM: Mochler, Diana J		Carrier Tracking No(s): 500-148281.1	
Client Contact: Shipping/Receiving		Phone: Diana.Mochler@Eurofins.com		E-Mail: Diana.Mochler@Eurofins.com		Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North, Earth City, MO, 63045		State of Origin: Illinois		Job #: 500-198722-2	
Due Date Requested: 6/6/2021		TAT Requested (days):		Preservation Codes:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
PO #:		WO #:		Field Filtered Sample (Yes or No)		Total Number of Containers	
Project #: 50011597		SSOW#:		903.0/PreSep_21 Standard Target List		3	
Site: NRG Midwest Generation Waukegan		Sample Date		904.0/PreSep_0 Standard Target List		3	
Sample Identification - Client ID (Lab ID)		Sample Time		Perform M/MSD (Yes or No)		3	
MW-01 (500-198722-1)		5/5/21 15:58 Central		X		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
MW-02 (500-198722-2)		5/5/21 15:01 Central		X		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
MW-03 (500-198722-3)		5/5/21 13:56 Central		X		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
MW-04 (500-198722-4)		5/5/21 13:00 Central		X		Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
Special Instructions/Note:		Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)		Special Instructions/Note:			
		Preservation Code:					
		Water					
		Water					
		Water					
		Water					

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____
 Relinquished by: *John Smith* Date/Time: 5/6/21 1620 Received by: **FED EX** Date/Time: 5/8/21 0914
 Relinquished by: **FED EX** Date/Time: _____ Received by: *Michael K...* Date/Time: 5/12/21 09:00
 Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____
 Custody Seals Intact: Yes No No
 Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198722-2

Login Number: 198722

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9,2.1,2.0,2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198722-2

Login Number: 198722

List Number: 2

Creator: Mazariegos, Leonel A

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/08/21 11:11 AM

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



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-198722-2

Login Number: 198722

List Number: 3

Creator: Korrinhizer, Micha L

List Source: Eurofins TestAmerica, St. Louis

List Creation: 05/10/21 04:25 PM

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



Tracer/Carrier Summary

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

Job ID: 500-198722-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

			Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)		
500-198722-1	MW-01	61.3		
500-198722-2	MW-02	62.8		
500-198722-3	MW-03	61.6		
500-198722-4	MW-04	50.5		
500-198722-5	MW-09	59.2		
500-198722-6	MW-11	52.3		
500-198722-7	MW-14	48.0		
500-198722-7 DU	MW-14	50.5		
500-198722-8	MW-16	41.4		
500-198722-9	Duplicate	60.1		
LCS 160-509491/1-A	Lab Control Sample	78.1		
MB 160-509491/23-A	Method Blank	76.0		
Tracer/Carrier Legend				
Ba = Ba Carrier				

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

			Percent Yield (Acceptance Limits)		
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)		
500-198722-1	MW-01	61.3	86.0		
500-198722-2	MW-02	62.8	85.2		
500-198722-3	MW-03	61.6	83.7		
500-198722-4	MW-04	50.5	88.6		
500-198722-5	MW-09	59.2	82.6		
500-198722-6	MW-11	52.3	84.5		
500-198722-7	MW-14	48.0	85.2		
500-198722-7 DU	MW-14	50.5	83.4		
500-198722-8	MW-16	41.4	86.0		
500-198722-9	Duplicate	60.1	87.5		
LCS 160-509493/1-A	Lab Control Sample	78.1	80.4		
MB 160-509493/23-A	Method Blank	76.0	84.1		
Tracer/Carrier Legend					
Ba = Ba Carrier					
Y = Y Carrier					