

DATA SUMMARY POSTING

Station: Midwest Generation Will County Generating Station

Regulated Unit(s): Pond 2 S (IEPA ID No. W1978100011-03)
 Pond 3 S (IEPA ID No. W1978100011-04)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) groundwater monitoring was completed during the 1st quarter 2023 which includes the entire list of parameters specified under Section 845.600(a)(1) and (b). Table 1 is a summary table of all available CCR monitoring data to date including any data generated previously as part of the Federal CCR Rule monitoring. In addition, Table 2 provides a summary of turbidity data which was collected as part of State CCR Rule requirements which is a data parameter that was not required under the Federal CCR Rule.

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

Table 2. Groundwater Turbidity - Ponds 2S and 3S, Midwest Generation, LLC, Will County Generating Station, Romeoville, IL.

Well ID	Date	Turbidity (NTU)
MW-05	2/23/2021	0.63
	4/10/2021	1.28
	4/25/2021	2.41
	5/24/2021	3.78
	6/11/2021	2.4
	6/28/2021	2.89
	7/12/2021	3.93
	8/4/2021	1.35
	8/24/2021	3.5
	9/24/2021	3.59
	11/23/2021	4.45
	2/24/2022	0.37
	6/16/2022	1.76
	8/25/2022	2.99
	11/15/2022	38.9
2/23/2023	2.18	
MW-06	2/23/2021	0.31
	4/10/2021	11.17
	4/25/2021	15.04
	5/24/2021	5.18
	6/11/2021	2.96
	6/29/2021	4.06
	7/12/2021	6.43
	8/4/2021	3.5
	8/24/2021	7.0
	9/24/2021	4.2
	11/23/2021	6.38
	2/22/2022	0.47
	6/14/2022	3.87
	8/25/2022	2.6
	11/16/2022	8.12
2/23/2023	10.08	
MW-09	3/1/2021	0.86
	4/10/2021	6.91
	4/25/2021	2.08
	5/25/2021	14.12
	6/11/2021	2.39
	6/29/2021	2.97
	7/12/2021	3.94
	8/4/2021	0.0
	8/25/2021	19.9
	9/24/2021	3.67
	11/23/2021	19.07
	2/22/2022	0.59
	6/15/2022	113.77
	8/25/2022	1.93
	11/16/2022	11.73
2/23/2023	10.34	
MW-10	2/25/2021	172.14
	4/10/2021	29.99
	4/25/2021	34.77
	5/25/2021	44.14
	6/11/2021	92.03
	6/29/2021	29.35
	7/12/2021	23.45
	8/4/2021	47.68
	8/26/2021	27.5
	9/24/2021	542
	11/23/2021	312.05
	2/24/2022	72.18
	6/14/2022	55.5
	8/25/2022	8.83
	11/16/2022	32.4
2/23/2023	53.32	
MW-11	4/10/2021	269.25
	4/25/2021	60.28
	5/25/2021	9.56
	6/11/2021	77.09
	6/29/2021	7.43
	7/12/2021	39.12
	8/4/2021	9.53
	8/26/2021	11.4
	9/24/2021	9.68
	11/23/2021	1.85
	2/23/2022	162.43
	6/13/2022	27.05
	8/23/2022	10.9
	11/16/2022	60.3
	2/21/2023	51.30
MW-12	4/10/2021	31.67
	4/25/2021	15.04
	5/25/2021	28.65
	6/11/2021	6.1
	6/29/2021	13.04
	7/12/2021	12.99
	8/4/2021	11.97
	8/26/2021	10.9
	9/24/2021	11.97
	11/23/2021	3.88
	2/24/2022	82.8
	6/13/2022	4.24
	8/23/2022	7.35
	11/16/2022	2.85
	2/21/2023	1.82

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

Attn: Patrick Allenstein
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JOB DESCRIPTION

Will County CCR
Quarterly GW Monitoring

JOB NUMBER

500-229879-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



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Case Narrative

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

Job ID: 500-229879-1

Job ID: 500-229879-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-229879-1**

Receipt

The samples were received on 2/24/2023 9:31 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.1° C and 1.4° C.

Metals

Method 6020A: The low level continuing calibration verification (ICVL/CCVL) associated with batch 500-700664 recovered above the upper control limit for Beryllium. The samples associated with this ICVL/CCVL were non-detects for the affected analyte; therefore, the data have been reported.

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

General Chemistry

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



Method Summary

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

Job ID: 500-229879-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-229879-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-229879-1	MW-05	Water	02/23/23 09:35	02/24/23 09:31
500-229879-2	MW-06	Water	02/23/23 11:21	02/24/23 09:31
500-229879-3	MW-09	Water	02/23/23 15:44	02/24/23 09:31
500-229879-4	MW-10	Water	02/23/23 12:52	02/24/23 09:31
500-229879-5	2S/3S Duplicate	Water	02/23/23 00:00	02/24/23 09:31

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

Client Sample Results

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

Job ID: 500-229879-1

Client Sample ID: MW-05

Lab Sample ID: 500-229879-1

Date Collected: 02/23/23 09:35

Matrix: Water

Date Received: 02/24/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:11	1
Arsenic	0.0018		0.0010		mg/L		02/27/23 08:21	02/28/23 18:11	1
Barium	0.058		0.0025		mg/L		02/27/23 08:21	02/28/23 18:11	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:11	1
Boron	6.3		1.0		mg/L		02/27/23 08:21	03/01/23 13:42	20
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:11	1
Calcium	120		0.20		mg/L		02/27/23 08:21	02/28/23 18:11	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:11	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:11	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:11	1
Lithium	0.012		0.010		mg/L		02/27/23 08:21	02/28/23 18:11	1
Molybdenum	0.067		0.0050		mg/L		02/27/23 08:21	02/28/23 18:11	1
Selenium	0.021		0.0025		mg/L		02/27/23 08:21	02/28/23 18:11	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00027		0.00020		mg/L		03/03/23 14:45	03/06/23 10:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			03/02/23 03:01	1
Chloride (SM 4500 Cl- E)	26		2.0		mg/L			03/01/23 11:37	1
Fluoride (SM 4500 F C)	0.43		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	430		250		mg/L			03/02/23 12:57	50

Client Sample Results

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

Job ID: 500-229879-1

Client Sample ID: MW-06

Lab Sample ID: 500-229879-2

Date Collected: 02/23/23 11:21

Matrix: Water

Date Received: 02/24/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:14	1
Arsenic	0.0023		0.0010		mg/L		02/27/23 08:21	02/28/23 18:14	1
Barium	0.086		0.0025		mg/L		02/27/23 08:21	02/28/23 18:14	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:14	1
Boron	3.0		0.50		mg/L		02/27/23 08:21	03/01/23 13:45	10
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:14	1
Calcium	110		0.20		mg/L		02/27/23 08:21	02/28/23 18:14	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:14	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:14	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:14	1
Lithium	0.016		0.010		mg/L		02/27/23 08:21	02/28/23 18:14	1
Molybdenum	0.023		0.0050		mg/L		02/27/23 08:21	02/28/23 18:14	1
Selenium	0.022		0.0025		mg/L		02/27/23 08:21	02/28/23 18:14	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/23 14:45	03/06/23 10:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			03/02/23 03:07	1
Chloride (SM 4500 Cl- E)	17		10		mg/L			03/06/23 12:31	5
Fluoride (SM 4500 F C)	0.35		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	190		50		mg/L			03/02/23 12:58	10

Client Sample Results

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

Job ID: 500-229879-1

Client Sample ID: MW-09

Lab Sample ID: 500-229879-3

Date Collected: 02/23/23 15:44

Matrix: Water

Date Received: 02/24/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:18	1
Arsenic	0.0086		0.0010		mg/L		02/27/23 08:21	02/28/23 18:18	1
Barium	0.029		0.0025		mg/L		02/27/23 08:21	02/28/23 18:18	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:18	1
Boron	2.0		0.25		mg/L		02/27/23 08:21	03/01/23 13:49	5
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:18	1
Calcium	38		0.20		mg/L		02/27/23 08:21	02/28/23 18:18	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:18	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:18	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:18	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 18:18	1
Molybdenum	0.065		0.0050		mg/L		02/27/23 08:21	02/28/23 18:18	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 18:18	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/23 14:45	03/06/23 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	680		10		mg/L			03/02/23 03:09	1
Chloride (SM 4500 Cl- E)	190		40		mg/L			03/06/23 12:32	20
Fluoride (SM 4500 F C)	0.53		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	210		50		mg/L			03/02/23 12:58	10

Client Sample Results

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

Job ID: 500-229879-1

Client Sample ID: MW-10

Lab Sample ID: 500-229879-4

Date Collected: 02/23/23 12:52

Matrix: Water

Date Received: 02/24/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:21	1
Arsenic	0.015		0.0010		mg/L		02/27/23 08:21	02/28/23 18:21	1
Barium	0.12		0.0025		mg/L		02/27/23 08:21	02/28/23 18:21	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:21	1
Boron	3.7		0.50		mg/L		02/27/23 08:21	03/01/23 13:54	10
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:21	1
Calcium	140		0.20		mg/L		02/27/23 08:21	02/28/23 18:21	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:21	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:21	1
Lead	0.00080		0.00050		mg/L		02/27/23 08:21	02/28/23 18:21	1
Lithium	0.016		0.010		mg/L		02/27/23 08:21	02/28/23 18:21	1
Molybdenum	0.073		0.0050		mg/L		02/27/23 08:21	02/28/23 18:21	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 18:21	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/23 14:45	03/06/23 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	930		10		mg/L			03/02/23 03:12	1
Chloride (SM 4500 Cl- E)	140		20		mg/L			03/06/23 12:32	10
Fluoride (SM 4500 F C)	0.71		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	250		50		mg/L			03/02/23 12:58	10

Client Sample Results

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

Job ID: 500-229879-1

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-229879-5

Date Collected: 02/23/23 00:00

Matrix: Water

Date Received: 02/24/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 18:24	1
Arsenic	0.0018		0.0010		mg/L		02/27/23 08:21	02/28/23 18:24	1
Barium	0.059		0.0025		mg/L		02/27/23 08:21	02/28/23 18:24	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 18:24	1
Boron	5.4		1.0		mg/L		02/27/23 08:21	03/01/23 13:58	20
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:24	1
Calcium	120		0.20		mg/L		02/27/23 08:21	02/28/23 18:24	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 18:24	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 18:24	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 18:24	1
Lithium	0.012		0.010		mg/L		02/27/23 08:21	02/28/23 18:24	1
Molybdenum	0.066		0.0050		mg/L		02/27/23 08:21	02/28/23 18:24	1
Selenium	0.022		0.0025		mg/L		02/27/23 08:21	02/28/23 18:24	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 18:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/23 14:45	03/06/23 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1100		10		mg/L			03/02/23 03:14	1
Chloride (SM 4500 Cl- E)	23		20		mg/L			03/06/23 12:32	10
Fluoride (SM 4500 F C)	0.43		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	490		100		mg/L			03/02/23 13:13	20

Definitions/Glossary

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

Job ID: 500-229879-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

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

QC Association Summary

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

Job ID: 500-229879-1

Metals

Prep Batch: 700282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total Recoverable	Water	3005A	
500-229879-2	MW-06	Total Recoverable	Water	3005A	
500-229879-3	MW-09	Total Recoverable	Water	3005A	
500-229879-4	MW-10	Total Recoverable	Water	3005A	
500-229879-5	2S/3S Duplicate	Total Recoverable	Water	3005A	
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 700664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total Recoverable	Water	6020A	700282
500-229879-2	MW-06	Total Recoverable	Water	6020A	700282
500-229879-3	MW-09	Total Recoverable	Water	6020A	700282
500-229879-4	MW-10	Total Recoverable	Water	6020A	700282
500-229879-5	2S/3S Duplicate	Total Recoverable	Water	6020A	700282
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	6020A	700282
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700282

Analysis Batch: 700848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total Recoverable	Water	6020A	700282
500-229879-2	MW-06	Total Recoverable	Water	6020A	700282
500-229879-3	MW-09	Total Recoverable	Water	6020A	700282
500-229879-4	MW-10	Total Recoverable	Water	6020A	700282
500-229879-5	2S/3S Duplicate	Total Recoverable	Water	6020A	700282

Prep Batch: 701108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total/NA	Water	7470A	
500-229879-2	MW-06	Total/NA	Water	7470A	
500-229879-3	MW-09	Total/NA	Water	7470A	
500-229879-4	MW-10	Total/NA	Water	7470A	
500-229879-5	2S/3S Duplicate	Total/NA	Water	7470A	
MB 500-701108/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-701108/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 701281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total/NA	Water	7470A	701108
500-229879-2	MW-06	Total/NA	Water	7470A	701108
500-229879-3	MW-09	Total/NA	Water	7470A	701108
500-229879-4	MW-10	Total/NA	Water	7470A	701108
500-229879-5	2S/3S Duplicate	Total/NA	Water	7470A	701108
MB 500-701108/12-A	Method Blank	Total/NA	Water	7470A	701108
LCS 500-701108/13-A	Lab Control Sample	Total/NA	Water	7470A	701108

General Chemistry

Analysis Batch: 700692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total/NA	Water	SM 4500 Cl- E	

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QC Association Summary

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

Job ID: 500-229879-1

General Chemistry (Continued)

Analysis Batch: 700692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-700692/56	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-700692/57	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 700763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total/NA	Water	SM 2540C	
500-229879-2	MW-06	Total/NA	Water	SM 2540C	
500-229879-3	MW-09	Total/NA	Water	SM 2540C	
500-229879-4	MW-10	Total/NA	Water	SM 2540C	
500-229879-5	2S/3S Duplicate	Total/NA	Water	SM 2540C	
MB 500-700763/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-700763/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-229879-1 DU	MW-05	Total/NA	Water	SM 2540C	

Analysis Batch: 700905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-229879-2	MW-06	Total/NA	Water	SM 4500 SO4 E	
500-229879-3	MW-09	Total/NA	Water	SM 4500 SO4 E	
500-229879-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
500-229879-5	2S/3S Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-700905/16	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-700905/17	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 700911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total/NA	Water	SM 4500 F C	
500-229879-2	MW-06	Total/NA	Water	SM 4500 F C	
500-229879-3	MW-09	Total/NA	Water	SM 4500 F C	
500-229879-4	MW-10	Total/NA	Water	SM 4500 F C	
500-229879-5	2S/3S Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-700911/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-700911/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-700911/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-700911/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 701276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-2	MW-06	Total/NA	Water	SM 4500 Cl- E	
500-229879-3	MW-09	Total/NA	Water	SM 4500 Cl- E	
500-229879-4	MW-10	Total/NA	Water	SM 4500 Cl- E	
500-229879-5	2S/3S Duplicate	Total/NA	Water	SM 4500 Cl- E	
MB 500-701276/16	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-701276/17	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

QC Sample Results

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

Job ID: 500-229879-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:12	1
Arsenic	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Barium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:12	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Boron	<0.050		0.050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Calcium	<0.20		0.20		mg/L		02/27/23 08:21	02/28/23 17:12	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Molybdenum	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:12	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 17:12	1

Lab Sample ID: LCS 500-700282/2-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.535		mg/L		107	80 - 120
Arsenic	0.100	0.0952		mg/L		95	80 - 120
Barium	2.00	2.05		mg/L		102	80 - 120
Beryllium	0.0500	0.0479	^1+ ^+	mg/L		96	80 - 120
Boron	1.00	0.983		mg/L		98	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Calcium	10.0	9.80		mg/L		98	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.481		mg/L		96	80 - 120
Molybdenum	1.00	0.964		mg/L		96	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-701108/12-A
Matrix: Water
Analysis Batch: 701281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 701108

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/03/23 14:45	03/06/23 10:23	1

QC Sample Results

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

Job ID: 500-229879-1

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

Lab Sample ID: LCS 500-701108/13-A
Matrix: Water
Analysis Batch: 701281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 701108

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00214		mg/L		108	80 - 120

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

Lab Sample ID: MB 500-700763/1
Matrix: Water
Analysis Batch: 700763

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			03/02/23 02:49	1

Lab Sample ID: LCS 500-700763/2
Matrix: Water
Analysis Batch: 700763

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	246		mg/L		98	80 - 120

Lab Sample ID: 500-229879-1 DU
Matrix: Water
Analysis Batch: 700763

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1100		1040		mg/L		5	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-700692/56
Matrix: Water
Analysis Batch: 700692

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			03/01/23 11:31	1

Lab Sample ID: LCS 500-700692/57
Matrix: Water
Analysis Batch: 700692

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	85 - 115

Lab Sample ID: MB 500-701276/16
Matrix: Water
Analysis Batch: 701276

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			03/06/23 12:29	1

QC Sample Results

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

Job ID: 500-229879-1

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

Lab Sample ID: LCS 500-701276/17
Matrix: Water
Analysis Batch: 701276

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.8		mg/L		99	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-700911/3
Matrix: Water
Analysis Batch: 700911

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/02/23 13:02	1

Lab Sample ID: MB 500-700911/31
Matrix: Water
Analysis Batch: 700911

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/02/23 13:02	1

Lab Sample ID: LCS 500-700911/32
Matrix: Water
Analysis Batch: 700911

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

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

Lab Sample ID: LCS 500-700911/4
Matrix: Water
Analysis Batch: 700911

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

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

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-700905/16
Matrix: Water
Analysis Batch: 700905

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			03/02/23 12:53	1

Lab Sample ID: LCS 500-700905/17
Matrix: Water
Analysis Batch: 700905

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.3		mg/L		107	88 - 123



Chain of Custody Record

500 229879 COC **IAN JOHN HOWIESEN** Lab PM: Mockler Diana J Carrier Tracking No(s) COC No 500 106660 45300 1

Client Contact: **MITCHEL DOLOE PATRICK ALLENSTEIN** Phone: **630 325 1300** E Mail: Diana.Mockler@et.eurofins.com State of Origin Page Page 1 of 1

Company: KPRG and Associates Inc PWSID **520-229879**

Address: 414 Plaza Drive Suite 106 Due Date Requested

City: Westmont TAT Requested (days)

State Zip: IL 60559 Compliance Project Yes No

Phone: PO # 4502081393

Email: **mitcheald@kprginc.com PATRICKA@KPRGINC.COM** WFO #

Project Name: Will County 2S/3S Event Desc Quarterly GW Monitoring CCR Project # 50011609

Site: Illinois SSOW#

Sample Identification	Sample Date	Sample Time	Sample Type (G=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested				Total Number of Containers	Special Instructions/Note
							903.0 904.0	6010C 6020A 7470A	2540C 4500_F.C. SM4500_CLE SM4500_SO4_E			
							D	D	N			
1 MW-05	2-23-23	09:35	G	Water	N	N	X	X	X			5
2 MW-06	2-23-23	11:21	G	Water	N	N	X	X	X			5
3 MW-09	2-23-23	15:44	G	Water	N	N	X	X	X			5
4 MW 10	2-23-23	12:52	G	Water	N	N	X	X	X			5
MW 11				Water								
MW 12				Water								
5 2S/3S Duplicate	2-23-23		G	Water	N	N	X	X	X			5

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

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

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

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

Relinquished by: [Signature]	Date/Time: 2-24-23 09:31	Company: KPRG	Received by: [Signature]	Date/Time: 2/24/23 09:31	Company:
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____

Custody Seals Intact Yes No Custody Seal No Cooler Temperature(s) °C and Other Remarks: **(1.6-1.4)(0.3-0.1)**

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229879-1

Login Number: 229879

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,0.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-229879-1

Client Sample ID: MW-05

Date Collected: 02/23/23 09:35

Date Received: 02/24/23 09:31

Lab Sample ID: 500-229879-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:11
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		20	700848	FXG	EET CHI	03/01/23 13:42
Total/NA	Prep	7470A			701108	MJG	EET CHI	03/03/23 14:45 - 03/03/23 16:45 ¹
Total/NA	Analysis	7470A		1	701281	MJG	EET CHI	03/06/23 10:28
Total/NA	Analysis	SM 2540C		1	700763	CLB	EET CHI	03/02/23 03:01
Total/NA	Analysis	SM 4500 CI- E		1	700692	LP	EET CHI	03/01/23 11:37
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700905	LP	EET CHI	03/02/23 12:57

Client Sample ID: MW-06

Date Collected: 02/23/23 11:21

Date Received: 02/24/23 09:31

Lab Sample ID: 500-229879-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:14
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		10	700848	FXG	EET CHI	03/01/23 13:45
Total/NA	Prep	7470A			701108	MJG	EET CHI	03/03/23 14:45 - 03/03/23 16:45 ¹
Total/NA	Analysis	7470A		1	701281	MJG	EET CHI	03/06/23 10:31
Total/NA	Analysis	SM 2540C		1	700763	CLB	EET CHI	03/02/23 03:07
Total/NA	Analysis	SM 4500 CI- E		5	701276	LP	EET CHI	03/06/23 12:31
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		10	700905	LP	EET CHI	03/02/23 12:58

Client Sample ID: MW-09

Date Collected: 02/23/23 15:44

Date Received: 02/24/23 09:31

Lab Sample ID: 500-229879-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:18
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		5	700848	FXG	EET CHI	03/01/23 13:49
Total/NA	Prep	7470A			701108	MJG	EET CHI	03/03/23 14:45 - 03/03/23 16:45 ¹
Total/NA	Analysis	7470A		1	701281	MJG	EET CHI	03/06/23 10:33
Total/NA	Analysis	SM 2540C		1	700763	CLB	EET CHI	03/02/23 03:09
Total/NA	Analysis	SM 4500 CI- E		20	701276	LP	EET CHI	03/06/23 12:32
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		10	700905	LP	EET CHI	03/02/23 12:58

Lab Chronicle

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

Job ID: 500-229879-1

Client Sample ID: MW-10
Date Collected: 02/23/23 12:52
Date Received: 02/24/23 09:31

Lab Sample ID: 500-229879-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:21
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		10	700848	FXG	EET CHI	03/01/23 13:54
Total/NA	Prep	7470A			701108	MJG	EET CHI	03/03/23 14:45 - 03/03/23 16:45 ¹
Total/NA	Analysis	7470A		1	701281	MJG	EET CHI	03/06/23 10:35
Total/NA	Analysis	SM 2540C		1	700763	CLB	EET CHI	03/02/23 03:12
Total/NA	Analysis	SM 4500 CI- E		10	701276	LP	EET CHI	03/06/23 12:32
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		10	700905	LP	EET CHI	03/02/23 12:58

Client Sample ID: 2S/3S Duplicate
Date Collected: 02/23/23 00:00
Date Received: 02/24/23 09:31

Lab Sample ID: 500-229879-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 18:24
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		20	700848	FXG	EET CHI	03/01/23 13:58
Total/NA	Prep	7470A			701108	MJG	EET CHI	03/03/23 14:45 - 03/03/23 16:45 ¹
Total/NA	Analysis	7470A		1	701281	MJG	EET CHI	03/06/23 10:37
Total/NA	Analysis	SM 2540C		1	700763	CLB	EET CHI	03/02/23 03:14
Total/NA	Analysis	SM 4500 CI- E		10	701276	LP	EET CHI	03/06/23 12:32
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		20	700905	LP	EET CHI	03/02/23 13:13

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

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-229879-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/30/2023 8:07:49 AM

JOB DESCRIPTION

Will County CCR (RAD)
Quarterly GW Monitoring

JOB NUMBER

500-229879-2

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



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Case Narrative

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

Job ID: 500-229879-2

Job ID: 500-229879-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-229879-2

Receipt

The samples were received on 2/24/2023 9:31 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.1° C and 1.4° C.

RAD

Methods 903.0, 9315: Radium 226 batch 602039

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

MW-05 (500-229879-1), MW-06 (500-229879-2), MW-09 (500-229879-3), MW-10 (500-229879-4), 2S/3S Duplicate (500-229879-5), (LCS 160-602039/2-A), (MB 160-602039/1-A) and (500-229879-D-5-A DU)

Methods 904.0, 9320: Radium-228 batch 602041

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: MW-10 (500-229879-4). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 602041

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. MW-05 (500-229879-1), MW-06 (500-229879-2), MW-09 (500-229879-3), MW-10 (500-229879-4), 2S/3S Duplicate (500-229879-5), (LCS 160-602041/2-A), (MB 160-602041/1-A) and (500-229879-D-5-B 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: Will County CCR (RAD)

Job ID: 500-229879-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-229879-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-229879-1	MW-05	Water	02/23/23 09:35	02/24/23 09:31
500-229879-2	MW-06	Water	02/23/23 11:21	02/24/23 09:31
500-229879-3	MW-09	Water	02/23/23 15:44	02/24/23 09:31
500-229879-4	MW-10	Water	02/23/23 12:52	02/24/23 09:31
500-229879-5	2S/3S Duplicate	Water	02/23/23 00:00	02/24/23 09:31

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

Client Sample Results

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

Job ID: 500-229879-2

Client Sample ID: MW-05

Lab Sample ID: 500-229879-1

Date Collected: 02/23/23 09:35

Matrix: Water

Date Received: 02/24/23 09:31

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0557	U	0.0706	0.0707	1.00	0.117	pCi/L	03/01/23 10:36	03/28/23 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.8		30 - 110					03/01/23 10:36	03/28/23 15:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.403	U	0.407	0.409	1.00	0.655	pCi/L	03/01/23 11:14	03/09/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.8		30 - 110					03/01/23 11:14	03/09/23 11:57	1
Y Carrier	84.1		30 - 110					03/01/23 11:14	03/09/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.459	U	0.413	0.415	5.00	0.655	pCi/L		03/30/23 00:22	1

Client Sample Results

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

Job ID: 500-229879-2

Client Sample ID: MW-06

Lab Sample ID: 500-229879-2

Date Collected: 02/23/23 11:21

Matrix: Water

Date Received: 02/24/23 09:31

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0814	U	0.0780	0.0784	1.00	0.121	pCi/L	03/01/23 10:36	03/28/23 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.8		30 - 110					03/01/23 10:36	03/28/23 15:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.867		0.524	0.530	1.00	0.775	pCi/L	03/01/23 11:14	03/09/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.8		30 - 110					03/01/23 11:14	03/09/23 11:57	1
Y Carrier	83.4		30 - 110					03/01/23 11:14	03/09/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.948		0.530	0.536	5.00	0.775	pCi/L		03/30/23 00:22	1

Client Sample Results

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

Job ID: 500-229879-2

Client Sample ID: MW-09

Lab Sample ID: 500-229879-3

Date Collected: 02/23/23 15:44

Matrix: Water

Date Received: 02/24/23 09:31

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0376	U	0.0527	0.0528	1.00	0.0893	pCi/L	03/01/23 10:36	03/28/23 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		30 - 110					03/01/23 10:36	03/28/23 15:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.197	U	0.357	0.357	1.00	0.614	pCi/L	03/01/23 11:14	03/09/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.8		30 - 110					03/01/23 11:14	03/09/23 11:57	1
Y Carrier	84.5		30 - 110					03/01/23 11:14	03/09/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.234	U	0.361	0.361	5.00	0.614	pCi/L		03/30/23 00:22	1

Client Sample Results

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

Job ID: 500-229879-2

Client Sample ID: MW-10

Lab Sample ID: 500-229879-4

Date Collected: 02/23/23 12:52

Matrix: Water

Date Received: 02/24/23 09:31

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.178	U	0.133	0.134	1.00	0.194	pCi/L	03/01/23 10:36	03/28/23 15:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.8		30 - 110					03/01/23 10:36	03/28/23 15:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.17	G	0.748	0.756	1.00	1.10	pCi/L	03/01/23 11:14	03/09/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	58.8		30 - 110					03/01/23 11:14	03/09/23 11:57	1
Y Carrier	80.0		30 - 110					03/01/23 11:14	03/09/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.35		0.760	0.768	5.00	1.10	pCi/L		03/30/23 00:22	1

Client Sample Results

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

Job ID: 500-229879-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-229879-5

Date Collected: 02/23/23 00:00

Matrix: Water

Date Received: 02/24/23 09:31

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0207	U	0.0612	0.0612	1.00	0.114	pCi/L	03/01/23 10:36	03/28/23 15:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.8		30 - 110					03/01/23 10:36	03/28/23 15:39	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.499	U	0.423	0.426	1.00	0.661	pCi/L	03/01/23 11:14	03/09/23 11:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.8		30 - 110					03/01/23 11:14	03/09/23 11:57	1
Y Carrier	83.7		30 - 110					03/01/23 11:14	03/09/23 11:57	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.520	U	0.427	0.430	5.00	0.661	pCi/L		03/30/23 00:22	1

Definitions/Glossary

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

Job ID: 500-229879-2

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-229879-2

Rad

Prep Batch: 602039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total/NA	Water	PrecSep-21	
500-229879-2	MW-06	Total/NA	Water	PrecSep-21	
500-229879-3	MW-09	Total/NA	Water	PrecSep-21	
500-229879-4	MW-10	Total/NA	Water	PrecSep-21	
500-229879-5	2S/3S Duplicate	Total/NA	Water	PrecSep-21	
MB 160-602039/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602039/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-229879-5 DU	2S/3S Duplicate	Total/NA	Water	PrecSep-21	

Prep Batch: 602041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229879-1	MW-05	Total/NA	Water	PrecSep_0	
500-229879-2	MW-06	Total/NA	Water	PrecSep_0	
500-229879-3	MW-09	Total/NA	Water	PrecSep_0	
500-229879-4	MW-10	Total/NA	Water	PrecSep_0	
500-229879-5	2S/3S Duplicate	Total/NA	Water	PrecSep_0	
MB 160-602041/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602041/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-229879-5 DU	2S/3S Duplicate	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-229879-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-602039/1-A
Matrix: Water
Analysis Batch: 605277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602039

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.02688	U	0.0423	0.0423	1.00	0.100	pCi/L	03/01/23 10:36	03/28/23 08:38	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	91.5		30 - 110			03/01/23 10:36	03/28/23 08:38	1		

Lab Sample ID: LCS 160-602039/2-A
Matrix: Water
Analysis Batch: 605277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602039

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.79		1.18	1.00	0.0931	pCi/L	104	75 - 125
Carrier	LCS	LCS	Limits			Prepared	Analyzed	Dil Fac	
	%Yield	Qualifier							
Ba Carrier	91.0		30 - 110						

Lab Sample ID: 500-229879-5 DU
Matrix: Water
Analysis Batch: 605277

Client Sample ID: 2S/3S Duplicate
Prep Type: Total/NA
Prep Batch: 602039

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0207	U	0.1114		0.0753	1.00	0.104	pCi/L	0.66	1
Carrier	DU	DU	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	85.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-602041/1-A
Matrix: Water
Analysis Batch: 602892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602041

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4786	U	0.346	0.349	1.00	0.525	pCi/L	03/01/23 11:14	03/09/23 11:53	1
Carrier	MB	MB	Limits			Prepared	Analyzed	Dil Fac		
	%Yield	Qualifier								
Ba Carrier	91.5		30 - 110			03/01/23 11:14	03/09/23 11:53	1		
Y Carrier	81.9		30 - 110			03/01/23 11:14	03/09/23 11:53	1		

QC Sample Results

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

Job ID: 500-229879-2

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

Lab Sample ID: LCS 160-602041/2-A
Matrix: Water
Analysis Batch: 602892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602041

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	8.13	9.678		1.32	1.00	0.493	pCi/L	119	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	91.0		30 - 110							
Y Carrier	80.7		30 - 110							

Lab Sample ID: 500-229879-5 DU
Matrix: Water
Analysis Batch: 602892

Client Sample ID: 2S/3S Duplicate
Prep Type: Total/NA
Prep Batch: 602041

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										1
Radium-228	0.499	U	0.5415	U	0.376	1.00	0.558	pCi/L	0.05	1
DU DU										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	85.3		30 - 110							
Y Carrier	81.9		30 - 110							

Eurofins Chicago

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



Chain of Custody Record



500 229879 COC **IAN JOHN HOWLISON**

Client Contact: **PATRICK ALLENSTEIN** Phone: **630 325 1300**

Lab PM: Mockler Diana J Carrier Tracking No(s) _____ COC No: 500 106660 45300 1

E Mail: Diana Mockler@et eurofinsus.com State of Origin _____ Page: Page 1 of 1

Company: KPRG and Associates Inc PWSID _____

Address: 414 Plaza Drive Suite 106

City: Westmont Due Date Requested _____

State Zip: IL 60559 TAT Requested (days) _____

Phone: _____ PO # 4502081393 Compliance Project Yes No

Email: **patricka@kprginc.com** WVO # _____

Project Name: Will County 2S/3S Event Desc Quarterly GW Monitoring CCR Project # 50011609

Site: Illinois SSOW# _____

Analysis Requested

Job #: **500-229879**

Preservation Codes:

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

Other _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue A-Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)				Total Number of Containers	Special Instructions/Note
					903.0 904.0	6010C 6020A 7470A	2540C 4500_F.C. SM4500_CLE SM4500_SO4_E				
					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	D	D	N		
MW-05	2-23-23	09:35	G	Water	N	N	X	X	X		5
MW-06	2-23-23	11:21	G	Water	N	N	X	X	X		5
MW-09	2-23-23	15:44	G	Water	N	N	X	X	X		5
MW 10	2-23-23	12:52	G	Water	N	N	X	X	X		5
MW 11	—	—	—	Water							—
MW 12	—	—	—	Water							—
2S/3S Duplicate	2-23-23	—	G	Water	N	N	X	X	X		5

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

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

Deliverable Requested I II III IV Other (specify) _____

Special Instructions/QC Requirements _____

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

Relinquished by *[Signature]* Date/Time: 2-24-23 09:31 Company: KPRG Received by *[Signature]* Date/Time: 2/24/23 09:31 Company: _____

Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____

Relinquished by _____ Date/Time _____ Company _____ Received by _____ Date/Time _____ Company _____

Custody Seals Intact Yes No Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: **(1.6 - 1.4) (0.3 - 0.1)**

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Chain of Custody Record



<p>Client Information (Sub Contract Lab)</p> <p>Company: TestAmerica Laboratories, Inc. Address: 13715 Rider Trail North, Earth City, MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:</p>		<p>Sampler: Mockler, Diana J Phone: Diana.Mockler@et.eurofins.com</p>		<p>Lab PM: Mockler, Diana J E-Mail: Diana.Mockler@et.eurofins.com</p>		<p>Carrier Tracking No(s): 500-171206.1 State of Origin: Illinois</p>		<p>COC No: 500-229879-1 Page: 1 of 1 Job #: 500-229879-1</p>	
<p>Due Date Requested: 3/16/2023 TAT Requested (days):</p>		<p>Accreditations Required (See note): NELAP - Illinois</p>		<p>Analysis Requested</p>		<p>Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)</p>		<p>Special Instructions/Note: Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume: Batch QC must be performed (dup. spikes, etc) - no NCMs concerning limited volume:</p>	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (Water, Solid, Organic/Vol, B1=Trace, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Total Number of Containers
MW-05 (500-229879-1)	2/23/23	09:35 Central	Water	Water			X	X	3
MW-06 (500-229879-2)	2/23/23	11:21 Central	Water	Water			X	X	3
MW-09 (500-229879-3)	2/23/23	15:44 Central	Water	Water			X	X	3
MW-10 (500-229879-4)	2/23/23	12:52 Central	Water	Water			X	X	3
2S/3S Duplicate (500-229879-5)	2/23/23	Central	Water	Water			X	X	3
<p>Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.</p>									
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) <input type="checkbox"/> Primary Deliverable Rank: 2</p> <p>Empty Kit Relinquished by: _____ Date: _____ Time: _____</p> <p>Relinquished by: <i>Stephanie Hernandez</i> Date/Time: 4/24/23 1000 Company: <i>EEA</i></p> <p>Relinquished by: <i>FED EX</i> Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____ <input type="checkbox"/> Yes <input type="checkbox"/> No</p>									
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements: _____</p> <p>Method of Shipment: _____ Date/Time: _____</p> <p>Received by: <i>Sara Worthington</i> Date/Time: FEB 27 2023 0855 Company: <i>EEA</i></p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: _____</p>									



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229879-2

Login Number: 229879

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4,0.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229879-2

Login Number: 229879

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/28/23 10:05 AM

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



Lab Chronicle

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

Job ID: 500-229879-2

Client Sample ID: MW-05

Lab Sample ID: 500-229879-1

Date Collected: 02/23/23 09:35

Matrix: Water

Date Received: 02/24/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602039	DJP	EET SL	03/01/23 10:36
Total/NA	Analysis	903.0		1	605277	FLC	EET SL	03/28/23 15:38
Total/NA	Prep	PrecSep_0			602041	DJP	EET SL	03/01/23 11:14
Total/NA	Analysis	904.0		1	602892	FLC	EET SL	03/09/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	605594	EMH	EET SL	03/30/23 00:22

Client Sample ID: MW-06

Lab Sample ID: 500-229879-2

Date Collected: 02/23/23 11:21

Matrix: Water

Date Received: 02/24/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602039	DJP	EET SL	03/01/23 10:36
Total/NA	Analysis	903.0		1	605277	FLC	EET SL	03/28/23 15:38
Total/NA	Prep	PrecSep_0			602041	DJP	EET SL	03/01/23 11:14
Total/NA	Analysis	904.0		1	602892	FLC	EET SL	03/09/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	605594	EMH	EET SL	03/30/23 00:22

Client Sample ID: MW-09

Lab Sample ID: 500-229879-3

Date Collected: 02/23/23 15:44

Matrix: Water

Date Received: 02/24/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602039	DJP	EET SL	03/01/23 10:36
Total/NA	Analysis	903.0		1	605277	FLC	EET SL	03/28/23 15:38
Total/NA	Prep	PrecSep_0			602041	DJP	EET SL	03/01/23 11:14
Total/NA	Analysis	904.0		1	602892	FLC	EET SL	03/09/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	605594	EMH	EET SL	03/30/23 00:22

Client Sample ID: MW-10

Lab Sample ID: 500-229879-4

Date Collected: 02/23/23 12:52

Matrix: Water

Date Received: 02/24/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602039	DJP	EET SL	03/01/23 10:36
Total/NA	Analysis	903.0		1	605277	FLC	EET SL	03/28/23 15:38
Total/NA	Prep	PrecSep_0			602041	DJP	EET SL	03/01/23 11:14
Total/NA	Analysis	904.0		1	602892	FLC	EET SL	03/09/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	605594	EMH	EET SL	03/30/23 00:22

Lab Chronicle

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

Job ID: 500-229879-2

Client Sample ID: 2S/3S Duplicate

Lab Sample ID: 500-229879-5

Date Collected: 02/23/23 00:00

Matrix: Water

Date Received: 02/24/23 09:31

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			602039	DJP	EET SL	03/01/23 10:36
Total/NA	Analysis	903.0		1	605277	FLC	EET SL	03/28/23 15:39
Total/NA	Prep	PrecSep_0			602041	DJP	EET SL	03/01/23 11:14
Total/NA	Analysis	904.0		1	602892	FLC	EET SL	03/09/23 11:57
Total/NA	Analysis	Ra226_Ra228		1	605594	EMH	EET SL	03/30/23 00:22

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-229879-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

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Tracer/Carrier Summary

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

Job ID: 500-229879-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
500-229879-1	MW-05	69.8
500-229879-2	MW-06	69.8
500-229879-3	MW-09	82.8
500-229879-4	MW-10	58.8
500-229879-5	2S/3S Duplicate	71.8
500-229879-5 DU	2S/3S Duplicate	85.3
LCS 160-602039/2-A	Lab Control Sample	91.0
MB 160-602039/1-A	Method Blank	91.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-229879-1	MW-05	69.8	84.1
500-229879-2	MW-06	69.8	83.4
500-229879-3	MW-09	82.8	84.5
500-229879-4	MW-10	58.8	80.0
500-229879-5	2S/3S Duplicate	71.8	83.7
500-229879-5 DU	2S/3S Duplicate	85.3	81.9
LCS 160-602041/2-A	Lab Control Sample	91.0	80.7
MB 160-602041/1-A	Method Blank	91.5	81.9

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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

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

Generated 3/8/2023 4:08:36 PM

JOB DESCRIPTION

Will County CCR

JOB NUMBER

500-229829-1

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



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Authorized for release by
Diana Mockler, Project Manager I
Diana.Mockler@et.eurofinsus.com
(219)252-7570



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Case Narrative

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

Job ID: 500-229829-1

Job ID: 500-229829-1

Laboratory: Eurofins Chicago

Narrative

**Job Narrative
500-229829-1**

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.8° C, 1.1° C and 1.4° C.

Metals

Method 6020A: The low level continuing calibration verification (ICVL/CCVL) associated with batch 500-700664 recovered above the upper control limit for Beryllium. The samples associated with this ICVL/CCVL were non-detects for the affected analyte; therefore, the data have been reported.

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

General Chemistry

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



Method Summary

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

Job ID: 500-229829-1

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

Protocol References:

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

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-229829-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-229829-1	MW-01	Water	02/22/23 09:22	02/22/23 16:40
500-229829-2	MW-02	Water	02/22/23 10:50	02/22/23 16:40
500-229829-3	MW-03	Water	02/22/23 11:59	02/22/23 16:40
500-229829-4	MW-04	Water	02/22/23 13:02	02/22/23 16:40
500-229829-5	MW-07	Water	02/22/23 14:35	02/22/23 16:40
500-229829-6	MW-13	Water	02/21/23 15:24	02/22/23 16:40
500-229829-7	MW-14	Water	02/21/23 16:07	02/22/23 16:40
500-229829-8	MW-15	Water	02/21/23 16:54	02/22/23 16:40
500-229829-9	1N/1S Duplicate	Water	02/21/23 00:00	02/22/23 16:40
500-229829-10	MW-11	Water	02/21/23 14:24	02/22/23 16:40
500-229829-11	MW-12	Water	02/21/23 13:29	02/22/23 16:40
500-229829-12	MW-08	Water	02/23/23 14:17	02/24/23 09:31
500-229829-13	MW-09	Water	02/23/23 15:44	02/24/23 09:31

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Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-01
Date Collected: 02/22/23 09:22
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:21	1
Arsenic	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:21	1
Barium	0.082		0.0025		mg/L		02/23/23 16:26	02/24/23 12:21	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:21	1
Boron	2.0		0.050		mg/L		02/23/23 16:26	02/24/23 12:21	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:21	1
Calcium	170		0.20		mg/L		02/23/23 16:26	02/24/23 12:21	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:21	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:21	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:21	1
Lithium	0.031		0.010		mg/L		02/23/23 16:26	02/24/23 12:21	1
Molybdenum	0.013		0.0050		mg/L		02/23/23 16:26	02/24/23 12:21	1
Selenium	0.0092		0.0025		mg/L		02/23/23 16:26	02/24/23 12:21	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			02/24/23 03:45	1
Chloride (SM 4500 Cl- E)	29		2.0		mg/L			02/28/23 11:12	1
Fluoride (SM 4500 F C)	0.49		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	360		50		mg/L			02/28/23 12:59	10

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-02
Date Collected: 02/22/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:24	1
Arsenic	0.0095		0.0010		mg/L		02/23/23 16:26	02/24/23 12:24	1
Barium	0.060		0.0025		mg/L		02/23/23 16:26	02/24/23 12:24	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:24	1
Boron	4.6		0.050		mg/L		02/23/23 16:26	02/24/23 12:24	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:24	1
Calcium	89		0.20		mg/L		02/23/23 16:26	02/24/23 12:24	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:24	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:24	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:24	1
Lithium	0.042		0.010		mg/L		02/23/23 16:26	02/24/23 12:24	1
Molybdenum	0.075		0.0050		mg/L		02/23/23 16:26	02/24/23 12:24	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 12:24	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	980		10		mg/L			02/24/23 03:47	1
Chloride (SM 4500 Cl- E)	29		2.0		mg/L			02/28/23 11:12	1
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	460		250		mg/L			02/28/23 13:00	50

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-03
Date Collected: 02/22/23 11:59
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:35	1
Arsenic	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:35	1
Barium	0.099		0.0025		mg/L		02/23/23 16:26	02/24/23 12:35	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:35	1
Boron	2.4		0.050		mg/L		02/23/23 16:26	02/24/23 12:35	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:35	1
Calcium	180		0.20		mg/L		02/23/23 16:26	02/24/23 12:35	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:35	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:35	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:35	1
Lithium	0.030		0.010		mg/L		02/23/23 16:26	02/24/23 12:35	1
Molybdenum	0.013		0.0050		mg/L		02/23/23 16:26	02/24/23 12:35	1
Selenium	0.030		0.0025		mg/L		02/23/23 16:26	02/24/23 12:35	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:35	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			02/24/23 03:50	1
Chloride (SM 4500 Cl- E)	14		10		mg/L			02/28/23 11:12	5
Fluoride (SM 4500 F C)	0.29		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	330		100		mg/L			02/28/23 13:01	20

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-04
Date Collected: 02/22/23 13:02
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:38	1
Arsenic	0.0044		0.0010		mg/L		02/23/23 16:26	02/24/23 12:38	1
Barium	0.035		0.0025		mg/L		02/23/23 16:26	02/24/23 12:38	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:38	1
Boron	3.7		0.050		mg/L		02/23/23 16:26	02/24/23 12:38	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:38	1
Calcium	390		1.0		mg/L		02/23/23 16:26	02/24/23 13:29	5
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:38	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:38	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:38	1
Lithium	0.020		0.010		mg/L		02/23/23 16:26	02/24/23 12:38	1
Molybdenum	0.032		0.0050		mg/L		02/23/23 16:26	02/24/23 12:38	1
Selenium	0.067		0.0025		mg/L		02/23/23 16:26	02/24/23 12:38	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	2500		10		mg/L			02/24/23 03:53	1
Chloride (SM 4500 Cl- E)	36		2.0		mg/L			02/28/23 11:13	1
Fluoride (SM 4500 F C)	0.38		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	1200		250		mg/L			02/28/23 13:01	50

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-07

Lab Sample ID: 500-229829-5

Date Collected: 02/22/23 14:35

Matrix: Water

Date Received: 02/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:41	1
Arsenic	0.0016		0.0010		mg/L		02/23/23 16:26	02/24/23 12:41	1
Barium	0.084		0.0025		mg/L		02/23/23 16:26	02/24/23 12:41	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:41	1
Boron	3.0		0.050		mg/L		02/23/23 16:26	02/24/23 12:41	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:41	1
Calcium	220		0.20		mg/L		02/23/23 16:26	02/24/23 12:41	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:41	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:41	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:41	1
Lithium	0.027		0.010		mg/L		02/23/23 16:26	02/24/23 12:41	1
Molybdenum	0.022		0.0050		mg/L		02/23/23 16:26	02/24/23 12:41	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 12:41	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1500		10		mg/L			02/24/23 03:56	1
Chloride (SM 4500 Cl- E)	120		20		mg/L			02/28/23 11:13	10
Fluoride (SM 4500 F C)	0.41		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	470		250		mg/L			02/28/23 13:02	50

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-13
Date Collected: 02/21/23 15:24
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:45	1
Arsenic	0.0013		0.0010		mg/L		02/23/23 16:26	02/24/23 12:45	1
Barium	0.11		0.0025		mg/L		02/23/23 16:26	02/24/23 12:45	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:45	1
Boron	0.65		0.050		mg/L		02/23/23 16:26	02/24/23 12:45	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:45	1
Calcium	110		0.20		mg/L		02/23/23 16:26	02/24/23 12:45	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:45	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:45	1
Lead	0.0011		0.00050		mg/L		02/23/23 16:26	02/24/23 12:45	1
Lithium	<0.010		0.010		mg/L		02/23/23 16:26	02/24/23 12:45	1
Molybdenum	0.014		0.0050		mg/L		02/23/23 16:26	02/24/23 12:45	1
Selenium	0.011		0.0025		mg/L		02/23/23 16:26	02/24/23 12:45	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	740		10		mg/L			02/24/23 03:58	1
Chloride (SM 4500 Cl- E)	150		20		mg/L			02/28/23 11:14	10
Fluoride (SM 4500 F C)	0.32		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	120		25		mg/L			02/28/23 13:02	5

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-14
Date Collected: 02/21/23 16:07
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:48	1
Arsenic	0.0028		0.0010		mg/L		02/23/23 16:26	02/24/23 12:48	1
Barium	0.15		0.0025		mg/L		02/23/23 16:26	02/24/23 12:48	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:48	1
Boron	2.6		0.050		mg/L		02/23/23 16:26	02/24/23 12:48	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:48	1
Calcium	88		0.20		mg/L		02/23/23 16:26	02/24/23 12:48	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:48	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:48	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:48	1
Lithium	0.021		0.010		mg/L		02/23/23 16:26	02/24/23 12:48	1
Molybdenum	0.071		0.0050		mg/L		02/23/23 16:26	02/24/23 12:48	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 12:48	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	970		10		mg/L			02/24/23 04:01	1
Chloride (SM 4500 Cl- E)	120		20		mg/L			02/28/23 11:14	10
Fluoride (SM 4500 F C)	0.61		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	390		250		mg/L			02/28/23 12:42	50

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-15

Lab Sample ID: 500-229829-8

Date Collected: 02/21/23 16:54

Matrix: Water

Date Received: 02/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:52	1
Arsenic	0.0031		0.0010		mg/L		02/23/23 16:26	02/24/23 12:52	1
Barium	0.15		0.0025		mg/L		02/23/23 16:26	02/24/23 12:52	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:52	1
Boron	3.0		0.050		mg/L		02/23/23 16:26	02/24/23 12:52	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:52	1
Calcium	290		1.0		mg/L		02/23/23 16:26	02/24/23 13:36	5
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:52	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:52	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:52	1
Lithium	0.026		0.010		mg/L		02/23/23 16:26	02/24/23 12:52	1
Molybdenum	0.015		0.0050		mg/L		02/23/23 16:26	02/24/23 12:52	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 12:52	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1700		10		mg/L			02/24/23 04:04	1
Chloride (SM 4500 Cl- E)	120		20		mg/L			02/28/23 11:14	10
Fluoride (SM 4500 F C)	0.28		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	690		250		mg/L			02/28/23 12:43	50

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: 1N/1S Duplicate

Lab Sample ID: 500-229829-9

Date Collected: 02/21/23 00:00

Matrix: Water

Date Received: 02/22/23 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:55	1
Arsenic	0.0027		0.0010		mg/L		02/23/23 16:26	02/24/23 12:55	1
Barium	0.12		0.0025		mg/L		02/23/23 16:26	02/24/23 12:55	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:55	1
Boron	2.6		0.050		mg/L		02/23/23 16:26	02/24/23 12:55	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:55	1
Calcium	85		0.20		mg/L		02/23/23 16:26	02/24/23 12:55	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:55	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:55	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:55	1
Lithium	0.020		0.010		mg/L		02/23/23 16:26	02/24/23 12:55	1
Molybdenum	0.069		0.0050		mg/L		02/23/23 16:26	02/24/23 12:55	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 12:55	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1000		10		mg/L			02/24/23 04:06	1
Chloride (SM 4500 Cl- E)	120		20		mg/L			02/28/23 11:30	10
Fluoride (SM 4500 F C)	0.60		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	390		250		mg/L			02/28/23 12:43	50

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-11
Date Collected: 02/21/23 14:24
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 12:59	1
Arsenic	0.016		0.0010		mg/L		02/23/23 16:26	02/24/23 12:59	1
Barium	0.18		0.0025		mg/L		02/23/23 16:26	02/24/23 12:59	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:59	1
Boron	2.2		0.050		mg/L		02/23/23 16:26	02/24/23 12:59	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 12:59	1
Calcium	120		0.20		mg/L		02/23/23 16:26	02/24/23 12:59	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 12:59	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 12:59	1
Lead	0.00096		0.00050		mg/L		02/23/23 16:26	02/24/23 12:59	1
Lithium	<0.010		0.010		mg/L		02/23/23 16:26	02/24/23 12:59	1
Molybdenum	0.037		0.0050		mg/L		02/23/23 16:26	02/24/23 12:59	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 12:59	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 12:59	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	710		10		mg/L			02/24/23 04:09	1
Chloride (SM 4500 Cl- E)	130		20		mg/L			02/28/23 11:15	10
Fluoride (SM 4500 F C)	0.45		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	81		25		mg/L			02/28/23 12:44	5

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-12
Date Collected: 02/21/23 13:29
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 13:02	1
Arsenic	0.0015		0.0010		mg/L		02/23/23 16:26	02/24/23 13:02	1
Barium	0.13		0.0025		mg/L		02/23/23 16:26	02/24/23 13:02	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:02	1
Boron	1.6		0.050		mg/L		02/23/23 16:26	02/24/23 13:02	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:02	1
Calcium	150		0.20		mg/L		02/23/23 16:26	02/24/23 13:02	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 13:02	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 13:02	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 13:02	1
Lithium	0.012		0.010		mg/L		02/23/23 16:26	02/24/23 13:02	1
Molybdenum	0.025		0.0050		mg/L		02/23/23 16:26	02/24/23 13:02	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 13:02	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 13:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	980		10		mg/L			02/24/23 04:12	1
Chloride (SM 4500 Cl- E)	150		20		mg/L			02/28/23 11:15	10
Fluoride (SM 4500 F C)	0.41		0.10		mg/L			02/28/23 14:13	1
Sulfate (SM 4500 SO4 E)	180		50		mg/L			02/28/23 12:44	10

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-08

Lab Sample ID: 500-229829-12

Date Collected: 02/23/23 14:17

Matrix: Water

Date Received: 02/24/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:40	1
Arsenic	0.0030		0.0010		mg/L		02/27/23 08:21	02/28/23 17:40	1
Barium	0.040		0.0025		mg/L		02/27/23 08:21	02/28/23 17:40	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:40	1
Boron	1.9		0.050		mg/L		02/27/23 08:21	02/28/23 17:40	1
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:40	1
Calcium	150		0.20		mg/L		02/27/23 08:21	02/28/23 17:40	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:40	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:40	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:40	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:40	1
Molybdenum	0.028		0.0050		mg/L		02/27/23 08:21	02/28/23 17:40	1
Selenium	0.033		0.0025		mg/L		02/27/23 08:21	02/28/23 17:40	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 17:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	1300		10		mg/L			02/27/23 05:30	1
Chloride (SM 4500 Cl- E)	200		20		mg/L			02/28/23 11:15	10
Fluoride (SM 4500 F C)	0.60		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	320		250		mg/L			02/28/23 12:44	50

Client Sample Results

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

Job ID: 500-229829-1

Client Sample ID: MW-09

Lab Sample ID: 500-229829-13

Date Collected: 02/23/23 15:44

Matrix: Water

Date Received: 02/24/23 09:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:43	1
Arsenic	0.0079		0.0010		mg/L		02/27/23 08:21	02/28/23 17:43	1
Barium	0.029		0.0025		mg/L		02/27/23 08:21	02/28/23 17:43	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:43	1
Boron	1.7		0.050		mg/L		02/27/23 08:21	02/28/23 17:43	1
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:43	1
Calcium	36		0.20		mg/L		02/27/23 08:21	02/28/23 17:43	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:43	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:43	1
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:43	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:43	1
Molybdenum	0.063		0.0050		mg/L		02/27/23 08:21	02/28/23 17:43	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:43	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 17:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 10:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	720		10		mg/L			02/27/23 05:33	1
Chloride (SM 4500 Cl- E)	190		20		mg/L			02/28/23 11:16	10
Fluoride (SM 4500 F C)	0.53		0.10		mg/L			03/02/23 13:02	1
Sulfate (SM 4500 SO4 E)	210		50		mg/L			02/28/23 12:45	10

Definitions/Glossary

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

Job ID: 500-229829-1

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

Glossary

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

QC Association Summary

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

Job ID: 500-229829-1

Metals

Prep Batch: 700008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total Recoverable	Water	3005A	
500-229829-2	MW-02	Total Recoverable	Water	3005A	
500-229829-3	MW-03	Total Recoverable	Water	3005A	
500-229829-4	MW-04	Total Recoverable	Water	3005A	
500-229829-5	MW-07	Total Recoverable	Water	3005A	
500-229829-6	MW-13	Total Recoverable	Water	3005A	
500-229829-7	MW-14	Total Recoverable	Water	3005A	
500-229829-8	MW-15	Total Recoverable	Water	3005A	
500-229829-9	1N/1S Duplicate	Total Recoverable	Water	3005A	
500-229829-10	MW-11	Total Recoverable	Water	3005A	
500-229829-11	MW-12	Total Recoverable	Water	3005A	
MB 500-700008/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-700008/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 700200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total Recoverable	Water	6020A	700008
500-229829-2	MW-02	Total Recoverable	Water	6020A	700008
500-229829-3	MW-03	Total Recoverable	Water	6020A	700008
500-229829-4	MW-04	Total Recoverable	Water	6020A	700008
500-229829-4	MW-04	Total Recoverable	Water	6020A	700008
500-229829-5	MW-07	Total Recoverable	Water	6020A	700008
500-229829-6	MW-13	Total Recoverable	Water	6020A	700008
500-229829-7	MW-14	Total Recoverable	Water	6020A	700008
500-229829-8	MW-15	Total Recoverable	Water	6020A	700008
500-229829-8	MW-15	Total Recoverable	Water	6020A	700008
500-229829-9	1N/1S Duplicate	Total Recoverable	Water	6020A	700008
500-229829-10	MW-11	Total Recoverable	Water	6020A	700008
500-229829-11	MW-12	Total Recoverable	Water	6020A	700008
MB 500-700008/1-A	Method Blank	Total Recoverable	Water	6020A	700008
LCS 500-700008/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700008

Prep Batch: 700282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-12	MW-08	Total Recoverable	Water	3005A	
500-229829-13	MW-09	Total Recoverable	Water	3005A	
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 700664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-12	MW-08	Total Recoverable	Water	6020A	700282
500-229829-13	MW-09	Total Recoverable	Water	6020A	700282
MB 500-700282/1-A	Method Blank	Total Recoverable	Water	6020A	700282
LCS 500-700282/2-A	Lab Control Sample	Total Recoverable	Water	6020A	700282

Prep Batch: 700695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total/NA	Water	7470A	
500-229829-2	MW-02	Total/NA	Water	7470A	
500-229829-3	MW-03	Total/NA	Water	7470A	

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QC Association Summary

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

Job ID: 500-229829-1

Metals (Continued)

Prep Batch: 700695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-4	MW-04	Total/NA	Water	7470A	
500-229829-5	MW-07	Total/NA	Water	7470A	
500-229829-6	MW-13	Total/NA	Water	7470A	
500-229829-7	MW-14	Total/NA	Water	7470A	
500-229829-8	MW-15	Total/NA	Water	7470A	
500-229829-9	1N/1S Duplicate	Total/NA	Water	7470A	
500-229829-10	MW-11	Total/NA	Water	7470A	
500-229829-11	MW-12	Total/NA	Water	7470A	
500-229829-12	MW-08	Total/NA	Water	7470A	
500-229829-13	MW-09	Total/NA	Water	7470A	
MB 500-700695/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-700695/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-229829-10 MS	MW-11	Total/NA	Water	7470A	
500-229829-10 MSD	MW-11	Total/NA	Water	7470A	
500-229829-10 DU	MW-11	Total/NA	Water	7470A	

Analysis Batch: 700909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total/NA	Water	7470A	700695
500-229829-2	MW-02	Total/NA	Water	7470A	700695
500-229829-3	MW-03	Total/NA	Water	7470A	700695
500-229829-4	MW-04	Total/NA	Water	7470A	700695
500-229829-5	MW-07	Total/NA	Water	7470A	700695
500-229829-6	MW-13	Total/NA	Water	7470A	700695
500-229829-7	MW-14	Total/NA	Water	7470A	700695
500-229829-8	MW-15	Total/NA	Water	7470A	700695
500-229829-9	1N/1S Duplicate	Total/NA	Water	7470A	700695
500-229829-10	MW-11	Total/NA	Water	7470A	700695
500-229829-11	MW-12	Total/NA	Water	7470A	700695
500-229829-12	MW-08	Total/NA	Water	7470A	700695
500-229829-13	MW-09	Total/NA	Water	7470A	700695
MB 500-700695/12-A	Method Blank	Total/NA	Water	7470A	700695
LCS 500-700695/13-A	Lab Control Sample	Total/NA	Water	7470A	700695
500-229829-10 MS	MW-11	Total/NA	Water	7470A	700695
500-229829-10 MSD	MW-11	Total/NA	Water	7470A	700695
500-229829-10 DU	MW-11	Total/NA	Water	7470A	700695

General Chemistry

Analysis Batch: 700038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total/NA	Water	SM 2540C	
500-229829-2	MW-02	Total/NA	Water	SM 2540C	
500-229829-3	MW-03	Total/NA	Water	SM 2540C	
500-229829-4	MW-04	Total/NA	Water	SM 2540C	
500-229829-5	MW-07	Total/NA	Water	SM 2540C	
500-229829-6	MW-13	Total/NA	Water	SM 2540C	
500-229829-7	MW-14	Total/NA	Water	SM 2540C	
500-229829-8	MW-15	Total/NA	Water	SM 2540C	
500-229829-9	1N/1S Duplicate	Total/NA	Water	SM 2540C	
500-229829-10	MW-11	Total/NA	Water	SM 2540C	

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QC Association Summary

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

Job ID: 500-229829-1

General Chemistry (Continued)

Analysis Batch: 700038 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-11	MW-12	Total/NA	Water	SM 2540C	
MB 500-700038/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-700038/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 700232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-12	MW-08	Total/NA	Water	SM 2540C	
500-229829-13	MW-09	Total/NA	Water	SM 2540C	
MB 500-700232/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-700232/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 700503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total/NA	Water	SM 4500 Cl- E	
500-229829-2	MW-02	Total/NA	Water	SM 4500 Cl- E	
500-229829-3	MW-03	Total/NA	Water	SM 4500 Cl- E	
500-229829-4	MW-04	Total/NA	Water	SM 4500 Cl- E	
500-229829-5	MW-07	Total/NA	Water	SM 4500 Cl- E	
500-229829-6	MW-13	Total/NA	Water	SM 4500 Cl- E	
500-229829-7	MW-14	Total/NA	Water	SM 4500 Cl- E	
500-229829-8	MW-15	Total/NA	Water	SM 4500 Cl- E	
500-229829-9	1N/1S Duplicate	Total/NA	Water	SM 4500 Cl- E	
500-229829-10	MW-11	Total/NA	Water	SM 4500 Cl- E	
500-229829-11	MW-12	Total/NA	Water	SM 4500 Cl- E	
500-229829-12	MW-08	Total/NA	Water	SM 4500 Cl- E	
500-229829-13	MW-09	Total/NA	Water	SM 4500 Cl- E	
MB 500-700503/52	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-700503/53	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 700520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-229829-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-229829-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-229829-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-229829-5	MW-07	Total/NA	Water	SM 4500 SO4 E	
500-229829-6	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-229829-7	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-229829-8	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-229829-9	1N/1S Duplicate	Total/NA	Water	SM 4500 SO4 E	
500-229829-10	MW-11	Total/NA	Water	SM 4500 SO4 E	
500-229829-11	MW-12	Total/NA	Water	SM 4500 SO4 E	
500-229829-12	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-229829-13	MW-09	Total/NA	Water	SM 4500 SO4 E	
MB 500-700520/52	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-700520/53	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 700591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total/NA	Water	SM 4500 F C	
500-229829-6	MW-13	Total/NA	Water	SM 4500 F C	

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QC Association Summary

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

Job ID: 500-229829-1

General Chemistry (Continued)

Analysis Batch: 700591 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-7	MW-14	Total/NA	Water	SM 4500 F C	
500-229829-8	MW-15	Total/NA	Water	SM 4500 F C	
500-229829-9	1N/1S Duplicate	Total/NA	Water	SM 4500 F C	
500-229829-10	MW-11	Total/NA	Water	SM 4500 F C	
500-229829-11	MW-12	Total/NA	Water	SM 4500 F C	
MB 500-700591/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-700591/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-229829-11 MS	MW-12	Total/NA	Water	SM 4500 F C	
500-229829-11 MSD	MW-12	Total/NA	Water	SM 4500 F C	

Analysis Batch: 700911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-2	MW-02	Total/NA	Water	SM 4500 F C	
500-229829-3	MW-03	Total/NA	Water	SM 4500 F C	
500-229829-4	MW-04	Total/NA	Water	SM 4500 F C	
500-229829-5	MW-07	Total/NA	Water	SM 4500 F C	
500-229829-12	MW-08	Total/NA	Water	SM 4500 F C	
500-229829-13	MW-09	Total/NA	Water	SM 4500 F C	
MB 500-700911/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-700911/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

QC Sample Results

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

Job ID: 500-229829-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-700008/1-A
Matrix: Water
Analysis Batch: 700200

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700008

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/23/23 16:26	02/24/23 11:53	1
Arsenic	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Barium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 11:53	1
Beryllium	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Boron	<0.050		0.050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Cadmium	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Calcium	<0.20		0.20		mg/L		02/23/23 16:26	02/24/23 11:53	1
Chromium	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Cobalt	<0.0010		0.0010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Lead	<0.00050		0.00050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Lithium	<0.010		0.010		mg/L		02/23/23 16:26	02/24/23 11:53	1
Molybdenum	<0.0050		0.0050		mg/L		02/23/23 16:26	02/24/23 11:53	1
Selenium	<0.0025		0.0025		mg/L		02/23/23 16:26	02/24/23 11:53	1
Thallium	<0.0020		0.0020		mg/L		02/23/23 16:26	02/24/23 11:53	1

Lab Sample ID: LCS 500-700008/2-A
Matrix: Water
Analysis Batch: 700200

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700008

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0951		mg/L		95	80 - 120
Barium	2.00	2.07		mg/L		103	80 - 120
Beryllium	0.0500	0.0503		mg/L		101	80 - 120
Boron	1.00	0.901		mg/L		90	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	9.68		mg/L		97	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.515		mg/L		103	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Lithium	0.500	0.491		mg/L		98	80 - 120
Molybdenum	1.00	0.972		mg/L		97	80 - 120
Selenium	0.100	0.0982		mg/L		98	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		02/27/23 08:21	02/28/23 17:12	1
Arsenic	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Barium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:12	1
Beryllium	<0.0010	^1+ ^+	0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Boron	<0.050		0.050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Cadmium	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Calcium	<0.20		0.20		mg/L		02/27/23 08:21	02/28/23 17:12	1
Chromium	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Cobalt	<0.0010		0.0010		mg/L		02/27/23 08:21	02/28/23 17:12	1

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QC Sample Results

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

Job ID: 500-229829-1

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

Lab Sample ID: MB 500-700282/1-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00050		0.00050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Lithium	<0.010		0.010		mg/L		02/27/23 08:21	02/28/23 17:12	1
Molybdenum	<0.0050		0.0050		mg/L		02/27/23 08:21	02/28/23 17:12	1
Selenium	<0.0025		0.0025		mg/L		02/27/23 08:21	02/28/23 17:12	1
Thallium	<0.0020		0.0020		mg/L		02/27/23 08:21	02/28/23 17:12	1

Lab Sample ID: LCS 500-700282/2-A
Matrix: Water
Analysis Batch: 700664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 700282

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.535		mg/L		107	80 - 120
Arsenic	0.100	0.0952		mg/L		95	80 - 120
Barium	2.00	2.05		mg/L		102	80 - 120
Beryllium	0.0500	0.0479	^1+ ^+	mg/L		96	80 - 120
Boron	1.00	0.983		mg/L		98	80 - 120
Cadmium	0.0500	0.0497		mg/L		99	80 - 120
Calcium	10.0	9.80		mg/L		98	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Lithium	0.500	0.481		mg/L		96	80 - 120
Molybdenum	1.00	0.964		mg/L		96	80 - 120
Selenium	0.100	0.100		mg/L		100	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-700695/12-A
Matrix: Water
Analysis Batch: 700909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 700695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		03/01/23 11:25	03/02/23 09:57	1

Lab Sample ID: LCS 500-700695/13-A
Matrix: Water
Analysis Batch: 700909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 700695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00198	0.00194		mg/L		98	80 - 120

Lab Sample ID: 500-229829-10 MS
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000985		mg/L		99	75 - 125

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QC Sample Results

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

Job ID: 500-229829-1

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

Lab Sample ID: 500-229829-10 MSD
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000998		mg/L		100	75 - 125	1	20

Lab Sample ID: 500-229829-10 DU
Matrix: Water
Analysis Batch: 700909

Client Sample ID: MW-11
Prep Type: Total/NA
Prep Batch: 700695

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

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

Lab Sample ID: MB 500-700038/1
Matrix: Water
Analysis Batch: 700038

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/24/23 03:21	1

Lab Sample ID: LCS 500-700038/2
Matrix: Water
Analysis Batch: 700038

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

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

Lab Sample ID: MB 500-700232/1
Matrix: Water
Analysis Batch: 700232

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			02/27/23 04:39	1

Lab Sample ID: LCS 500-700232/2
Matrix: Water
Analysis Batch: 700232

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

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

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-700503/52
Matrix: Water
Analysis Batch: 700503

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			02/28/23 11:10	1

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QC Sample Results

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

Job ID: 500-229829-1

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

Lab Sample ID: LCS 500-700503/53
Matrix: Water
Analysis Batch: 700503

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.0		mg/L		100	85 - 115

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-700591/31
Matrix: Water
Analysis Batch: 700591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			02/28/23 14:13	1

Lab Sample ID: LCS 500-700591/32
Matrix: Water
Analysis Batch: 700591

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

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

Lab Sample ID: 500-229829-11 MS
Matrix: Water
Analysis Batch: 700591

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.41		5.00	5.42		mg/L		100	75 - 125

Lab Sample ID: 500-229829-11 MSD
Matrix: Water
Analysis Batch: 700591

Client Sample ID: MW-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Fluoride	0.41		5.00	5.58		mg/L		103	75 - 125	3	20

Lab Sample ID: MB 500-700911/3
Matrix: Water
Analysis Batch: 700911

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			03/02/23 13:02	1

Lab Sample ID: LCS 500-700911/4
Matrix: Water
Analysis Batch: 700911

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

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

QC Sample Results

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

Job ID: 500-229829-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-700520/52
Matrix: Water
Analysis Batch: 700520

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			02/28/23 12:36	1

Lab Sample ID: LCS 500-700520/53
Matrix: Water
Analysis Batch: 700520

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	21.9		mg/L		109	88 - 123



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



Chain of Custody Record



Environment Testing

Client Information		500-229829 COC		Sampler: <i>IAN JOHN HONKESON</i>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No: 500-110232-45943 1	
Client Contact: Patrick Allenstein		Phone: <i>630 325 1300</i>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin		Page 1 of 1		Job #: <i>500-229829</i>	
Company: KPRG and Associates Inc				PWSID				Analysis Requested			
Address: 14665 West Lisbon Road Suite 1A				Due Date Requested				Preservation Codes			
City: Brookfield				TAT Requested (days):				A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascobic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)			
State, Zip: WI 53005				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_C1_E, SM4500_SO4_E			
Phone				PO #: 4502116506							
Email: patricka@kprginc.com				WO #:							
Project Name: Will County 1N/1S Event Desc Quarterly GW Monitoring				Project #: 50011609							
Site: Illinois <i>COK</i>				SSOW#:							
Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Total Number of Containers	
										Special Instructions/Note	
MW-01		2-22-23		09:22		G		Water		5	
MW-02		2-22-23		10:50		G		Water		5	
MW-03		2-22-23		11:59		G		Water		5	
MW-04		2-22-23		13:02		G		Water		5	
MW-07		2-22-23		14:35		G		Water		5	
MW-08								Water			
MW-09								Water			
MW-13		2-21-23		15:24		G		Water		5	
MW-14		2-21-23		16:07		G		Water		5	
MW-15		2-21-23		16:54		G		Water		5	
1N/1S Duplicate		2-21-23		—		G		Water		5	
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Deliverable Requested I II, III IV, Other (specify)						Special Instructions/QC Requirements					
Empty Kit Relinquished by		Date		Time		Method of Shipment:					
Relinquished by: <i>[Signature]</i>		Date/Time: 2-22-23 16:40		Company: KPRG		Received by: <i>[Signature]</i>		Date/Time: 2-22-23 16:40		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No				Cooler Temperature(s) °C and Other Remarks: <i>(1.0 - 0.8) (2.1 - 1.1)</i>					

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Chain of Custody Record



Environmental Testing

Client Information				Sampler <i>IAN JOHN HORTON</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COG No 500-110231-45942 1	
Client Contact Patrick Allenstein				Phone <i>630 325 1300</i>	E-Mail Diana Mockler@et.eurofinsus.com	State of Origin	Page: Page 1 of 1	
Company KPRG and Associates Inc				PWSID	Analysis Requested			Job <i>500-229829</i>
Address 14665 West Lisbon Road Suite 1A				Due Date Requested.	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0 9010C, 9020A, 7470A 2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E			Preservation Codes A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)
City Brookfield				TAT Requested (days)				
State Zip WI 53005				Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No				
Phone				PO # 4502116506				
Email patricka@kprginc.com				WO #				
Project Name Will County 2S/3S Event Desc: Quarterly GW Monitoring				Project # 50011609	Total Number of Containers			
Site Illinois				SSOW#				
Sample Identification				Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	
<i>CCR</i>				Preservation Code:				Special Instructions/Note
MW-05				---	---	---	Water	---
MW-06				---	---	---	Water	---
MW-09				---	---	---	Water	---
MW-10				---	---	---	Water	---
<i>10</i> MW-11				<i>2-21-23</i>	<i>14:24</i>	<i>G</i>	Water	<i>NN XXX</i>
<i>11</i> MW 12				<i>2-21-23</i>	<i>13:29</i>	<i>G</i>	Water	<i>NN XXX</i>
2S/3S Duplicate				---	---	---	Water	---
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested I II III IV Other (specify)				Special Instructions/QC Requirements				
Empty Kit Relinquished by:				Date	Time	Method of Shipment:		
<i>AK</i>				<i>2-22-23</i>	<i>16:40</i>	<i>KPRG</i>		
Relinquished by:				Date/Time:	Company:	Received by:	Date/Time:	
<i>AK</i>				<i>2-22-23</i>	<i>KPRG</i>	<i>[Signature]</i>	<i>2-22-23 16:40</i>	
Relinquished by:				Date/Time:	Company:	Received by:	Date/Time:	
<i>AK</i>				<i>2-22-23</i>	<i>KPRG</i>	<i>[Signature]</i>	<i>2-22-23 16:40</i>	
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No				
<input type="checkbox"/> Yes <input type="checkbox"/> No				Cooler Temperature(s) °C and Other Remarks. <i>10 - 0.8</i>				

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Chain of Custody Record

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Client Information Client Contact: Patrick Allenstein Company: KPRG and Associates, Inc. Address: 14665 West Lisbon Road, Suite 1A City: Brookfield State, Zip: WI, 53005 Phone: Email: patricka@kprginc.com Project Name: Will County 1N/1S Event Desc. Quarterly GW Monitoring CCR Site: Illinois			500-229829 COC ampler: IAN JOHN HANCOCK none: 630 325 1300		Lab PM: Mockler, Diana J E-Mail: Diana.Mockler@et.eurofinsus.com		Carrier Tracking No(s): State of Origin:		COC No: 500-110232-45943.1 Page: Page 1 of 1 Job #: 500-229829														
Due Date Requested TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No PO #: 4502116506 WO #: Project #: 50011609 SSOW#:				Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)													
Sample Identification Sample Date Sample Time Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)				Field Filtered Sample (Yes or No) Refrigerated (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_L_C, SM4500_CL_E, SM4500_SO4_E						Total Number of containers		Special Instructions/Note:											
Preservation Code:				X X D D N																			
MW-01				Water																			
MW-02				Water																			
MW-03				Water																			
MW-04				Water																			
MW-07				Water																			
12 MW-08	2-23-23	14:17	G	Water	NN	X	X	X															
13 MW-09	2-23-23	15:44	G	Water	NN	X	X	X															
MW-13				Water																			
MW-14				Water																			
MW-15				Water																			
1N/1S Duplicate				Water																			
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								Deliverable Requested I, II, III, IV, Other (specify)				Special Instructions/QC Requirements.							
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:											
Relinquished by: [Signature]				Date/Time: 2-23-23 09:31				Company: KPRG				Received by: [Signature]				Date/Time: 2/23/23 0931				Company:			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Relinquished by:				Date/Time:				Company:				Received by:				Date/Time:				Company:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 1.6 to 1.4																			

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229829-1

Login Number: 229829

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8,1.1,1.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Lab Chronicle

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

Job ID: 500-229829-1

Client Sample ID: MW-01
Date Collected: 02/22/23 09:22
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:21
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:01
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 03:45
Total/NA	Analysis	SM 4500 CI- E		1	700503	LP	EET CHI	02/28/23 11:12
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		10	700520	LP	EET CHI	02/28/23 12:59

Client Sample ID: MW-02
Date Collected: 02/22/23 10:50
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:24
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:03
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 03:47
Total/NA	Analysis	SM 4500 CI- E		1	700503	LP	EET CHI	02/28/23 11:12
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700520	LP	EET CHI	02/28/23 13:00

Client Sample ID: MW-03
Date Collected: 02/22/23 11:59
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:35
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:05
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 03:50
Total/NA	Analysis	SM 4500 CI- E		5	700503	LP	EET CHI	02/28/23 11:12
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		20	700520	LP	EET CHI	02/28/23 13:01

Client Sample ID: MW-04
Date Collected: 02/22/23 13:02
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:38

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-229829-1

Client Sample ID: MW-04
Date Collected: 02/22/23 13:02
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		5	700200	FXG	EET CHI	02/24/23 13:29
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:07
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 03:53
Total/NA	Analysis	SM 4500 CI- E		1	700503	LP	EET CHI	02/28/23 11:13
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700520	LP	EET CHI	02/28/23 13:01

Client Sample ID: MW-07
Date Collected: 02/22/23 14:35
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:41
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:09
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 03:56
Total/NA	Analysis	SM 4500 CI- E		10	700503	LP	EET CHI	02/28/23 11:13
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700520	LP	EET CHI	02/28/23 13:02

Client Sample ID: MW-13
Date Collected: 02/21/23 15:24
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:45
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:11
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 03:58
Total/NA	Analysis	SM 4500 CI- E		10	700503	LP	EET CHI	02/28/23 11:14
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		5	700520	LP	EET CHI	02/28/23 13:02

Client Sample ID: MW-14
Date Collected: 02/21/23 16:07
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:48

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-229829-1

Client Sample ID: MW-14
Date Collected: 02/21/23 16:07
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:18
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 04:01
Total/NA	Analysis	SM 4500 CI- E		10	700503	LP	EET CHI	02/28/23 11:14
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		50	700520	LP	EET CHI	02/28/23 12:42

Client Sample ID: MW-15
Date Collected: 02/21/23 16:54
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:52
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		5	700200	FXG	EET CHI	02/24/23 13:36
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:20
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 04:04
Total/NA	Analysis	SM 4500 CI- E		10	700503	LP	EET CHI	02/28/23 11:14
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		50	700520	LP	EET CHI	02/28/23 12:43

Client Sample ID: 1N/1S Duplicate
Date Collected: 02/21/23 00:00
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:55
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:22
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 04:06
Total/NA	Analysis	SM 4500 CI- E		10	700503	LP	EET CHI	02/28/23 11:30
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		50	700520	LP	EET CHI	02/28/23 12:43

Client Sample ID: MW-11
Date Collected: 02/21/23 14:24
Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 12:59

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-229829-1

Client Sample ID: MW-11

Date Collected: 02/21/23 14:24

Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:24
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 04:09
Total/NA	Analysis	SM 4500 CI- E		10	700503	LP	EET CHI	02/28/23 11:15
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		5	700520	LP	EET CHI	02/28/23 12:44

Client Sample ID: MW-12

Date Collected: 02/21/23 13:29

Date Received: 02/22/23 16:40

Lab Sample ID: 500-229829-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700008	RN	EET CHI	02/23/23 16:26 - 02/23/23 16:56 ¹
Total Recoverable	Analysis	6020A		1	700200	FXG	EET CHI	02/24/23 13:02
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:33
Total/NA	Analysis	SM 2540C		1	700038	CLB	EET CHI	02/24/23 04:12
Total/NA	Analysis	SM 4500 CI- E		10	700503	LP	EET CHI	02/28/23 11:15
Total/NA	Analysis	SM 4500 F C		1	700591	EH	EET CHI	02/28/23 14:13
Total/NA	Analysis	SM 4500 SO4 E		10	700520	LP	EET CHI	02/28/23 12:44

Client Sample ID: MW-08

Date Collected: 02/23/23 14:17

Date Received: 02/24/23 09:31

Lab Sample ID: 500-229829-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 17:40
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:35
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:30
Total/NA	Analysis	SM 4500 CI- E		10	700503	LP	EET CHI	02/28/23 11:15
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		50	700520	LP	EET CHI	02/28/23 12:44

Client Sample ID: MW-09

Date Collected: 02/23/23 15:44

Date Received: 02/24/23 09:31

Lab Sample ID: 500-229829-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			700282	BDE	EET CHI	02/27/23 08:21 - 02/27/23 08:51 ¹
Total Recoverable	Analysis	6020A		1	700664	FXG	EET CHI	02/28/23 17:43
Total/NA	Prep	7470A			700695	MJG	EET CHI	03/01/23 11:25 - 03/01/23 13:25 ¹
Total/NA	Analysis	7470A		1	700909	MJG	EET CHI	03/02/23 10:37

Eurofins Chicago

Lab Chronicle

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

Job ID: 500-229829-1

Client Sample ID: MW-09

Lab Sample ID: 500-229829-13

Date Collected: 02/23/23 15:44

Matrix: Water

Date Received: 02/24/23 09:31

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Analysis	SM 2540C		1	700232	CLB	EET CHI	02/27/23 05:33
Total/NA	Analysis	SM 4500 Cl- E		10	700503	LP	EET CHI	02/28/23 11:16
Total/NA	Analysis	SM 4500 F C		1	700911	EH	EET CHI	03/02/23 13:02
Total/NA	Analysis	SM 4500 SO4 E		10	700520	LP	EET CHI	02/28/23 12:45

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

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 500-229829-1

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-23

- 1
- 2
- 3
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- 5
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- 8
- 9
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- 12
- 13

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/28/2023 1:48:11 PM

JOB DESCRIPTION

Will County CCR (RAD)

JOB NUMBER

500-229829-2

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Authorization



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Authorized for release by
Diana Mockler, Project Manager I
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Case Narrative

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

Job ID: 500-229829-2

Job ID: 500-229829-2

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-229829-2

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 4:40 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.8° C, 1.1° C and 1.4° C.

RAD

Method 903.0: Radium-226 batch 601827

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 (500-229829-1), MW-02 (500-229829-2), MW-03 (500-229829-3), MW-04 (500-229829-4), MW-07 (500-229829-5), MW-14 (500-229829-7), MW-15 (500-229829-8), 1N/1S Duplicate (500-229829-9), MW-11 (500-229829-10), MW-12 (500-229829-11), (LCS 160-601827/2-A), (MB 160-601827/1-A) and (500-229829-C-11-A DU)

Method 903.0: Radium-226 batch 602034

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-08 (500-229829-12), MW-09 (500-229829-13), (LCS 160-602034/2-A), (MB 160-602034/1-A), (680-230903-E-1-A), (680-230903-E-1-B MS) and (680-230903-E-1-C MSD)

Methods 903.0, 9315: Radium-226 batch 602183

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-13 (500-229829-6), (LCS 160-602183/2-A), (MB 160-602183/1-A), (310-250316-D-3-A), (310-250316-D-3-B MS) and (310-250316-D-3-C MSD)

Method 904.0: Radium-228 prep batch 160-602036:

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-08 (500-229829-12), MW-09 (500-229829-13), (LCS 160-602036/2-A), (MB 160-602036/1-A), (680-230903-E-1-D), (680-230903-E-1-E MS) and (680-230903-E-1-F MSD)

Method 904.0: Radium-228 batch 601828

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 (500-229829-1), MW-02 (500-229829-2), MW-03 (500-229829-3), MW-04 (500-229829-4), MW-07 (500-229829-5), MW-14 (500-229829-7), MW-15 (500-229829-8), 1N/1S Duplicate (500-229829-9), MW-11 (500-229829-10), MW-12 (500-229829-11), (LCS 160-601828/2-A), (MB 160-601828/1-A) and (500-229829-C-11-B DU)

Methods 904.0, 9320: Radium-228 batch 602192

The LCS recovered at (130%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (62-148%) per method requirements. The LCS passes, no further action is required. (LCS 160-602192/2-A)

Methods 904.0, 9320: Radium-228 batch 602192

Case Narrative

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

Job ID: 500-229829-2

Job ID: 500-229829-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

The matrix spike duplicate (MSD) recoveries were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (310-250316-D-3-F MSD)

Methods 904.0, 9320: Radium-228 batch 602192

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-13 (500-229829-6), (LCS 160-602192/2-A), (MB 160-602192/1-A), (310-250316-D-3-D), (310-250316-D-3-E MS) and (310-250316-D-3-F MSD)

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep_0:

Method PrecSep-21:

Method PrecSep-21:

Method PrecSep-21:

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



Method Summary

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

Job ID: 500-229829-2

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

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

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

Job ID: 500-229829-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-229829-1	MW-01	Water	02/22/23 09:22	02/22/23 16:40
500-229829-2	MW-02	Water	02/22/23 10:50	02/22/23 16:40
500-229829-3	MW-03	Water	02/22/23 11:59	02/22/23 16:40
500-229829-4	MW-04	Water	02/22/23 13:02	02/22/23 16:40
500-229829-5	MW-07	Water	02/22/23 14:35	02/22/23 16:40
500-229829-6	MW-13	Water	02/21/23 15:24	02/22/23 16:40
500-229829-7	MW-14	Water	02/21/23 16:07	02/22/23 16:40
500-229829-8	MW-15	Water	02/21/23 16:54	02/22/23 16:40
500-229829-9	1N/1S Duplicate	Water	02/21/23 00:00	02/22/23 16:40
500-229829-10	MW-11	Water	02/21/23 14:24	02/22/23 16:40
500-229829-11	MW-12	Water	02/21/23 13:29	02/22/23 16:40
500-229829-12	MW-08	Water	02/23/23 14:17	02/24/23 09:31
500-229829-13	MW-09	Water	02/23/23 15:44	02/24/23 09:31



Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-01

Lab Sample ID: 500-229829-1

Date Collected: 02/22/23 09:22

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.146		0.0766	0.0777	1.00	0.0889	pCi/L	02/28/23 09:01	03/22/23 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		30 - 110					02/28/23 09:01	03/22/23 10:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.192	U	0.249	0.250	1.00	0.544	pCi/L	02/28/23 09:47	03/08/23 12:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.1		30 - 110					02/28/23 09:47	03/08/23 12:08	1
Y Carrier	83.0		30 - 110					02/28/23 09:47	03/08/23 12:08	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0457	U	0.261	0.262	5.00	0.544	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-02

Lab Sample ID: 500-229829-2

Date Collected: 02/22/23 10:50

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.331		0.115	0.119	1.00	0.105	pCi/L	02/28/23 09:01	03/22/23 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.8		30 - 110					02/28/23 09:01	03/22/23 10:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.644		0.427	0.431	1.00	0.626	pCi/L	02/28/23 09:47	03/08/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.8		30 - 110					02/28/23 09:47	03/08/23 12:09	1
Y Carrier	83.7		30 - 110					02/28/23 09:47	03/08/23 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.974		0.442	0.447	5.00	0.626	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-03

Lab Sample ID: 500-229829-3

Date Collected: 02/22/23 11:59

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.279		0.108	0.111	1.00	0.129	pCi/L	02/28/23 09:01	03/22/23 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					02/28/23 09:01	03/22/23 10:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.481	U	0.352	0.354	1.00	0.537	pCi/L	02/28/23 09:47	03/08/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.5		30 - 110					02/28/23 09:47	03/08/23 12:09	1
Y Carrier	89.0		30 - 110					02/28/23 09:47	03/08/23 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.760		0.368	0.371	5.00	0.537	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-04

Lab Sample ID: 500-229829-4

Date Collected: 02/22/23 13:02

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.156		0.0845	0.0857	1.00	0.110	pCi/L	02/28/23 09:01	03/22/23 10:20	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					02/28/23 09:01	03/22/23 10:20	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.639		0.367	0.372	1.00	0.522	pCi/L	02/28/23 09:47	03/08/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.1		30 - 110					02/28/23 09:47	03/08/23 12:09	1
Y Carrier	83.4		30 - 110					02/28/23 09:47	03/08/23 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.795		0.377	0.382	5.00	0.522	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-07

Lab Sample ID: 500-229829-5

Date Collected: 02/22/23 14:35

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.239		0.0883	0.0909	1.00	0.0818	pCi/L	02/28/23 09:01	03/22/23 10:21	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					02/28/23 09:01	03/22/23 10:21	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.475	U	0.326	0.329	1.00	0.479	pCi/L	02/28/23 09:47	03/08/23 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.4		30 - 110					02/28/23 09:47	03/08/23 12:10	1
Y Carrier	84.1		30 - 110					02/28/23 09:47	03/08/23 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.714		0.338	0.341	5.00	0.479	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-13

Lab Sample ID: 500-229829-6

Date Collected: 02/21/23 15:24

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.00132	U	0.0917	0.0917	1.00	0.191	pCi/L	03/02/23 09:21	03/27/23 10:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					03/02/23 09:21	03/27/23 10:07	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00899	U	0.525	0.525	1.00	1.00	pCi/L	03/02/23 09:53	03/13/23 12:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.7		30 - 110					03/02/23 09:53	03/13/23 12:02	1
Y Carrier	82.6		30 - 110					03/02/23 09:53	03/13/23 12:02	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	-0.0103	U	0.533	0.533	5.00	1.00	pCi/L		03/28/23 13:07	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-14

Lab Sample ID: 500-229829-7

Date Collected: 02/21/23 16:07

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.438		0.115	0.121	1.00	0.0877	pCi/L	02/28/23 09:01	03/22/23 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					02/28/23 09:01	03/22/23 10:22	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.523	U	0.381	0.384	1.00	0.571	pCi/L	02/28/23 09:47	03/08/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.1		30 - 110					02/28/23 09:47	03/08/23 13:54	1
Y Carrier	85.6		30 - 110					02/28/23 09:47	03/08/23 13:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.961		0.398	0.403	5.00	0.571	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-15

Lab Sample ID: 500-229829-8

Date Collected: 02/21/23 16:54

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.219		0.0882	0.0903	1.00	0.0928	pCi/L	02/28/23 09:01	03/22/23 10:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					02/28/23 09:01	03/22/23 10:22	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.738		0.436	0.441	1.00	0.626	pCi/L	02/28/23 09:47	03/08/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					02/28/23 09:47	03/08/23 13:54	1
Y Carrier	84.5		30 - 110					02/28/23 09:47	03/08/23 13:54	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.957		0.445	0.450	5.00	0.626	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: 1N/1S Duplicate

Lab Sample ID: 500-229829-9

Date Collected: 02/21/23 00:00

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.518		0.128	0.136	1.00	0.0883	pCi/L	02/28/23 09:01	03/22/23 10:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					02/28/23 09:01	03/22/23 10:23	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.239	U	0.299	0.300	1.00	0.497	pCi/L	02/28/23 09:47	03/08/23 11:50	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					02/28/23 09:47	03/08/23 11:50	1
Y Carrier	87.9		30 - 110					02/28/23 09:47	03/08/23 11:50	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.757		0.325	0.329	5.00	0.497	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-11

Lab Sample ID: 500-229829-10

Date Collected: 02/21/23 14:24

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.432		0.129	0.135	1.00	0.106	pCi/L	02/28/23 09:01	03/22/23 20:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.9		30 - 110					02/28/23 09:01	03/22/23 20:47	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.14		0.531	0.541	1.00	0.723	pCi/L	02/28/23 09:47	03/08/23 11:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	68.9		30 - 110					02/28/23 09:47	03/08/23 11:58	1
Y Carrier	81.9		30 - 110					02/28/23 09:47	03/08/23 11:58	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.57		0.546	0.558	5.00	0.723	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-12

Lab Sample ID: 500-229829-11

Date Collected: 02/21/23 13:29

Matrix: Water

Date Received: 02/22/23 16:40

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00895	U	0.0764	0.0764	1.00	0.145	pCi/L	02/28/23 09:01	03/22/23 20:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		30 - 110					02/28/23 09:01	03/22/23 20:47	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.175	U	0.374	0.375	1.00	0.651	pCi/L	02/28/23 09:47	03/08/23 11:59	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.1		30 - 110					02/28/23 09:47	03/08/23 11:59	1
Y Carrier	83.7		30 - 110					02/28/23 09:47	03/08/23 11:59	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.184	U	0.382	0.383	5.00	0.651	pCi/L		03/23/23 16:56	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-08

Lab Sample ID: 500-229829-12

Date Collected: 02/23/23 14:17

Matrix: Water

Date Received: 02/24/23 09:31

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0888	U	0.0887	0.0891	1.00	0.140	pCi/L	03/01/23 09:47	03/23/23 07:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.5		30 - 110					03/01/23 09:47	03/23/23 07:55	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.860		0.474	0.481	1.00	0.665	pCi/L	03/01/23 10:09	03/06/23 12:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	65.5		30 - 110					03/01/23 10:09	03/06/23 12:09	1
Y Carrier	84.1		30 - 110					03/01/23 10:09	03/06/23 12:09	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.949		0.482	0.489	5.00	0.665	pCi/L		03/23/23 14:09	1

Client Sample Results

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

Job ID: 500-229829-2

Client Sample ID: MW-09

Lab Sample ID: 500-229829-13

Date Collected: 02/23/23 15:44

Matrix: Water

Date Received: 02/24/23 09:31

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0722	U	0.0620	0.0624	1.00	0.0903	pCi/L	03/01/23 09:47	03/23/23 07:57	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					03/01/23 09:47	03/23/23 07:57	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.268	U	0.398	0.399	1.00	0.672	pCi/L	03/01/23 10:09	03/06/23 12:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.3		30 - 110					03/01/23 10:09	03/06/23 12:10	1
Y Carrier	84.5		30 - 110					03/01/23 10:09	03/06/23 12:10	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.341	U	0.403	0.404	5.00	0.672	pCi/L		03/23/23 14:09	1

Definitions/Glossary

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

Job ID: 500-229829-2

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: Will County CCR (RAD)

Job ID: 500-229829-2

Rad

Prep Batch: 601827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total/NA	Water	PrecSep-21	
500-229829-2	MW-02	Total/NA	Water	PrecSep-21	
500-229829-3	MW-03	Total/NA	Water	PrecSep-21	
500-229829-4	MW-04	Total/NA	Water	PrecSep-21	
500-229829-5	MW-07	Total/NA	Water	PrecSep-21	
500-229829-7	MW-14	Total/NA	Water	PrecSep-21	
500-229829-8	MW-15	Total/NA	Water	PrecSep-21	
500-229829-9	1N/1S Duplicate	Total/NA	Water	PrecSep-21	
500-229829-10	MW-11	Total/NA	Water	PrecSep-21	
500-229829-11	MW-12	Total/NA	Water	PrecSep-21	
MB 160-601827/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-601827/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-229829-11 DU	MW-12	Total/NA	Water	PrecSep-21	

Prep Batch: 601828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-1	MW-01	Total/NA	Water	PrecSep_0	
500-229829-2	MW-02	Total/NA	Water	PrecSep_0	
500-229829-3	MW-03	Total/NA	Water	PrecSep_0	
500-229829-4	MW-04	Total/NA	Water	PrecSep_0	
500-229829-5	MW-07	Total/NA	Water	PrecSep_0	
500-229829-7	MW-14	Total/NA	Water	PrecSep_0	
500-229829-8	MW-15	Total/NA	Water	PrecSep_0	
500-229829-9	1N/1S Duplicate	Total/NA	Water	PrecSep_0	
500-229829-10	MW-11	Total/NA	Water	PrecSep_0	
500-229829-11	MW-12	Total/NA	Water	PrecSep_0	
MB 160-601828/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-601828/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-229829-11 DU	MW-12	Total/NA	Water	PrecSep_0	

Prep Batch: 602034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-12	MW-08	Total/NA	Water	PrecSep-21	
500-229829-13	MW-09	Total/NA	Water	PrecSep-21	
MB 160-602034/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602034/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 602036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-12	MW-08	Total/NA	Water	PrecSep_0	
500-229829-13	MW-09	Total/NA	Water	PrecSep_0	
MB 160-602036/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602036/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 602183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-6	MW-13	Total/NA	Water	PrecSep-21	
MB 160-602183/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-602183/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

QC Association Summary

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

Job ID: 500-229829-2

Rad

Prep Batch: 602192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-229829-6	MW-13	Total/NA	Water	PrecSep_0	
MB 160-602192/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-602192/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

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

QC Sample Results

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

Job ID: 500-229829-2

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-601827/1-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601827

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.008821	U	0.0567	0.0567	1.00	0.110	pCi/L	02/28/23 09:01	03/22/23 10:18	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	89.5		30 - 110					02/28/23 09:01	03/22/23 10:18	1

Lab Sample ID: LCS 160-601827/2-A
Matrix: Water
Analysis Batch: 604715

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601827

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.40		1.26	1.00	0.107	pCi/L	109	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits		Prepared	Analyzed	Dil Fac		
Ba Carrier	88.4		30 - 110					02/28/23 09:01	03/22/23 10:18

Lab Sample ID: 500-229829-11 DU
Matrix: Water
Analysis Batch: 604712

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 601827

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.00895	U	0.1097	U	0.0855	1.00	0.125	pCi/L	0.62	1
Carrier	DU %Yield	DU Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	75.1		30 - 110					02/28/23 09:01	03/22/23 10:18	1

Lab Sample ID: MB 160-602034/1-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602034

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03605	U	0.0486	0.0487	1.00	0.0816	pCi/L	03/01/23 09:47	03/23/23 07:54	1
Carrier	MB %Yield	MB Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	88.7		30 - 110					03/01/23 09:47	03/23/23 07:54	1

Lab Sample ID: LCS 160-602034/2-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602034

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	11.64		1.18	1.00	0.0735	pCi/L	103	75 - 125

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QC Sample Results

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

Job ID: 500-229829-2

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

Lab Sample ID: LCS 160-602034/2-A
Matrix: Water
Analysis Batch: 604790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602034

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.7		30 - 110

Lab Sample ID: MB 160-602183/1-A
Matrix: Water
Analysis Batch: 605096

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602183

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.01097	U	0.0446	0.0446	1.00	0.0873	pCi/L	03/02/23 09:21	03/27/23 10:07	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	94.4		30 - 110		03/02/23 09:21	03/27/23 10:07	1			

Lab Sample ID: LCS 160-602183/2-A
Matrix: Water
Analysis Batch: 605096

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602183

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	12.27		1.26	1.00	0.132	pCi/L	108	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	85.6		30 - 110						

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-601828/1-A
Matrix: Water
Analysis Batch: 602826

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 601828

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1520	U	0.310	0.310	1.00	0.540	pCi/L	02/28/23 09:47	03/08/23 12:08	1
Carrier	MB	MB	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	89.5		30 - 110		02/28/23 09:47	03/08/23 12:08	1			
Y Carrier	83.7		30 - 110		02/28/23 09:47	03/08/23 12:08	1			

Lab Sample ID: LCS 160-601828/2-A
Matrix: Water
Analysis Batch: 602861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601828

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	8.13	9.861		1.32	1.00	0.512	pCi/L	121	75 - 125

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QC Sample Results

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

Job ID: 500-229829-2

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

Lab Sample ID: LCS 160-601828/2-A
Matrix: Water
Analysis Batch: 602861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 601828

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	88.4		30 - 110
Y Carrier	85.2		30 - 110

Lab Sample ID: 500-229829-11 DU
Matrix: Water
Analysis Batch: 602825

Client Sample ID: MW-12
Prep Type: Total/NA
Prep Batch: 601828

Analyte	Sample		DU		Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	Limit
	Result	Qual	Result	Qual						
Radium-228	0.175	U	0.02528	U	0.393	1.00	0.717	pCi/L	0.20	1

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	75.1		30 - 110
Y Carrier	84.9		30 - 110

Lab Sample ID: MB 160-602036/1-A
Matrix: Water
Analysis Batch: 602566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602036

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.03918	U	0.338	0.338	1.00	0.613	pCi/L	03/01/23 10:09	03/06/23 12:09	1

	MB	MB	Limits	Prepared	Analyzed	Dil Fac
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.7		30 - 110	03/01/23 10:09	03/06/23 12:09	1
Y Carrier	84.9		30 - 110	03/01/23 10:09	03/06/23 12:09	1

Lab Sample ID: LCS 160-602036/2-A
Matrix: Water
Analysis Batch: 602566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602036

Analyte	Spike Added	LCS		Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual						
Radium-228	8.14	9.742		1.30	1.00	0.487	pCi/L	120	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.7		30 - 110
Y Carrier	84.5		30 - 110

Lab Sample ID: MB 160-602192/1-A
Matrix: Water
Analysis Batch: 603500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602192

Analyte	MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.008484	U	0.285	0.285	1.00	0.530	pCi/L	03/02/23 09:53	03/13/23 12:02	1

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QC Sample Results

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

Job ID: 500-229829-2

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

Lab Sample ID: MB 160-602192/1-A
Matrix: Water
Analysis Batch: 603500

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 602192

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	94.4		30 - 110
Y Carrier	85.2		30 - 110

Prepared	Analyzed	Dil Fac
03/02/23 09:53	03/13/23 12:02	1
03/02/23 09:53	03/13/23 12:02	1

Lab Sample ID: LCS 160-602192/2-A
Matrix: Water
Analysis Batch: 603500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 602192

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec
									Limits
Radium-228	8.12	10.59		1.41	1.00	0.496	pCi/L	130	75 - 125

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	85.6		30 - 110
Y Carrier	86.0		30 - 110

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



Chain of Custody Record



Environment Testing

Client Information		500-229829 COC		Sampler: <u>IAN JOHN HONKESON</u>		Lab PM: Mockler Diana J		Carrier Tracking No(s)		COC No: 500-110232-45943 1		
Client Contact: Patrick Allenstein		Phone: <u>630 325 1300</u>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin		Page 1 of 1		Job #: <u>500-229829</u>		
Company: KPRG and Associates Inc				PWSID				Analysis Requested				
Address: 14665 West Lisbon Road Suite 1A				Due Date Requested				Preservation Codes				
City: Brookfield				TAT Requested (days):				A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)				
State, Zip: WI 53005				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No				Other:				
Phone				PO #: 4502116506				Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_F_C, SM4500_CL_E, SM4500_SO4_E				
Email: patricka@kprginc.com				WO #:								
Project Name: Will County 1N/1S Event Desc Quarterly GW Monitoring				Project #: 50011609				Total Number of Containers				
Site: Illinois <u>COK</u>				SSOW#:								
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note		
				Preservation Code:		X X		D D N				
1	MW-01	2-22-23	09:22	G	Water	N	N	X	X	X	5	
2	MW-02	2-22-23	10:50	G	Water	N	N	X	X	X	5	
3	MW-03	2-22-23	11:59	G	Water	N	N	X	X	X	5	
4	MW-04	2-22-23	13:02	G	Water	N	N	X	X	X	5	
5	MW-07	2-22-23	14:35	G	Water	N	N	X	X	X	5	
	MW-08				Water							
	MW-09				Water							
6	MW-13	2-21-23	15:24	G	Water	N	N	X	X	X	5	
7	MW-14	2-21-23	16:07	G	Water	N	N	X	X	X	5	
8	MW-15	2-21-23	16:54	G	Water	N	N	X	X	X	5	
9	1N/1S Duplicate	2-21-23	—	G	Water	N	N	X	X	X	5	
10	Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
	<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I II, III IV, Other (specify)					Special Instructions/QC Requirements							
Empty Kit Relinquished by		Date		Time		Method of Shipment:						
Relinquished by: <u>[Signature]</u>		Date/Time: 2-22-23 16:40		Company: <u>KPRG</u>		Received by: <u>[Signature]</u>		Date/Time: 2-22-23 16:40		Company:		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No				Cooler Temperature(s) °C and Other Remarks: <u>(1.0 - 0.8) (2.1 - 1.1)</u>						

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

Chain of Custody Record



Eurofins Testing

Client Information				Sampler <i>IAN JOHN HORTON</i>	Lab PM Mockler Diana J	Carrier Tracking No(s)	COCC No 500-110231-45942 1																																																																																																		
Client Contact Patrick Allenstein				Phone <i>630 325 1300</i>	E-Mail Diana Mockler@et.eurofinsus.com	State of Origin	Page: Page 1 of 1																																																																																																		
Company KPRG and Associates Inc				PWSID	Analysis Requested		Job <i>500-229829</i>																																																																																																		
Address 14665 West Lisbon Road Suite 1A		Due Date Requested.		Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A																																																																																																		
City Brookfield		TAT Requested (days)						2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E	Total Number of Containers																																																																																																
State Zip WI 53005		Compliance Project <input type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																							
Phone		PO # 4502116506																																																																																																							
Email patricka@kprginc.com		WO #																																																																																																							
Project Name Will County 2S/3S Event Desc: Quarterly GW Monitoring		Project # 50011609																																																																																																							
Site Illinois		SSOW#		Preservation Codes																																																																																																					
CCR		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		A HCL		M Hexane																																																																																													
										B NaOH		N None																																																																																													
C Zn Acetate		O AsNaO2		D Nitric Acid		F Na2O4S		Q Na2SO3		R Na2S2O3																																																																																															
E NaHSO4		S H2SO4		H Amchlor		T TSP Dodecahydrate		I Ice		U Acetone																																																																																															
J DI Water		V MCAA		K EDTA		W pH 4-5		Y Trizma		Z other (specify)																																																																																															
L EDA		Other		Special Instructions/Note																																																																																																					
<table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>903.0, 904.0</th> <th>6010C, 6020A, 7470A</th> <th>2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E</th> <th>Total Number of Containers</th> <th>Special Instructions/Note</th> </tr> </thead> <tbody> <tr> <td>MW-05</td> <td>—</td> <td>—</td> <td>—</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-06</td> <td>—</td> <td>—</td> <td>—</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-09</td> <td>—</td> <td>—</td> <td>—</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-10</td> <td>—</td> <td>—</td> <td>—</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td><i>10</i> MW-11</td> <td><i>2-21-23</i></td> <td><i>14:24</i></td> <td><i>G</i></td> <td>Water</td> <td><i>N</i></td> <td><i>N</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>5</i></td> <td></td> </tr> <tr> <td><i>11</i> MW 12</td> <td><i>2-21-23</i></td> <td><i>13:29</i></td> <td><i>G</i></td> <td>Water</td> <td><i>N</i></td> <td><i>N</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>X</i></td> <td><i>5</i></td> <td></td> </tr> <tr> <td>2S/3S Duplicate</td> <td>—</td> <td>—</td> <td>—</td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>										Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A	2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E	Total Number of Containers	Special Instructions/Note	MW-05	—	—	—	Water								MW-06	—	—	—	Water								MW-09	—	—	—	Water								MW-10	—	—	—	Water								<i>10</i> MW-11	<i>2-21-23</i>	<i>14:24</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>5</i>		<i>11</i> MW 12	<i>2-21-23</i>	<i>13:29</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>5</i>		2S/3S Duplicate	—	—	—	Water							
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0, 904.0	6010C, 6020A, 7470A	2540C 4500_F_C, SM4500_CL_E, SM4500_SO4_E	Total Number of Containers	Special Instructions/Note																																																																																														
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Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																																																				
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Empty Kit Relinquished by:		Date		Time		Method of Shipment:																																																																																																			
Relinquished by <i>[Signature]</i>		Date/Time <i>2-22-23 16:40</i>		Company <i>KPRG</i>		Received by <i>[Signature]</i>		Date/Time <i>2-22-23 16:40</i>		Company																																																																																															
Relinquished by		Date/Time		Company		Received by		Date/Time		Company																																																																																															
Relinquished by		Date/Time		Company		Received by		Date/Time		Company																																																																																															
Custody Seals Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks. <i>10 - 0.8</i>																																																																																																					

Eurofins Chicago

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



Chain of Custody Record

Client Information				500-229829 COC		ampler: <u>IAN JOHN HANSEN</u>		Lab PM: Mockler, Diana J		Carrier Tracking No(s):		COC No: 500-110232-45943.1																																																																																																																																	
Client Contact: Patrick Allenstein				none: <u>630 325 1300</u>		E-Mail: Diana Mockler@et.eurofinsus.com		State of Origin:		Page: Page 1 of 1		Job #: <u>500-229829</u>																																																																																																																																	
Company: KPRG and Associates, Inc.				PWSID:		Analysis Requested						Preservation Codes:																																																																																																																																	
Address: 14665 West Lisbon Road, Suite 1A				Due Date Requested		Field Filtered Sample (Yes or No) Retention (MS/SP) (Yes or No) 903.0, 904.0 6010C, 6020A, 7470A 2540C, 4500_L_C, SM4500_CLE, SM4500_S04_E						A - HCL		M - Hexane																																																																																																																															
City: Brookfield				TAT Requested (days):								B - NaOH		N - None																																																																																																																															
State, Zip: WI, 53005				Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No								C - Zn Acetate		O - AsNaO2																																																																																																																															
Phone:				PO #: 4502116506								D - Nitric Acid		P - Na2O4S																																																																																																																															
Email: patricka@kprginc.com				WO #:								E - NaHSO4		Q - Na2SO3																																																																																																																															
Project Name: Will County 1N/1S Event Desc. Quarterly GW Monitoring <u>CCR</u>				Project #: 50011609		F - MeOH		R - Na2S2O3																																																																																																																																					
Site: Illinois				SSOW#:		G - Amchlor		S - H2SO4																																																																																																																																					
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				Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=biota, A=air)	Field Filtered Sample (Yes or No)	Retention (MS/SP) (Yes or No)	Special Instructions/Note:																																																																																																																																		
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I - Ice		U - Acetone		V - MCAA		J - DI Water		W - pH 4-5																																																																																																																																					
K - EDTA		Y - Trizma		Z - other (specify)		L - EDA		Other:																																																																																																																																					

Possible Hazard Identification

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client
 Disposal By Lab
 Archive For _____ Months

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

Empty Kit Relinquished by: _____		Date: _____	Time: _____	Method of Shipment: _____	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>2-23-23 09:31</u>	Company: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/23/23 0931</u>	Company: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____
Relinquished by: _____	Date/Time: _____	Company: _____	Received by: _____	Date/Time: _____	Company: _____

Custody Seals Intact: Yes No Custody Seal No _____ Cooler Temperature(s) °C and Other Remarks: 1.6 to 1.4





Client Information (Sub Contract Lab)		Lab PM: Mockler, Diana J		Camer Tracking No(s): 500-171181.1								
Shipping/Receiving		E-Mail: Diana.Mockler@eurofins.com		Page: Page 1 of 2								
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-229829-2								
Address: 13715 Rider Trail North,		Due Date Requested: 3/14/2023		Preservation Codes:								
City: Earth City		TAT Requested (days):		A - HCL								
State, Zip: MO, 63045		PO #:		M - Hexane								
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		N - None								
Email:		Project #: 50011609		O - AsNaO2								
SIC: NRG Midwest Generation Will County		SSOW#:		P - Na2O4S								
				Q - Na2SO3								
				R - Na2SO3								
				S - H2SO4								
				T - TSP Dodecahydrate								
				U - Acetone								
				V - MCAA								
				W - pH 4-5								
				X - Trizma								
				Y - EDTA								
				Z - other (specify)								
				Other:								
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	MATRIX (W=water, S=solid, O=wash/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 Standard Target List	904.0/PreSep_0 Standard Target List	Ra26Ra228 GPPC	Total Number of Containers	Special Instructions/Note:
MW-01 (500-229829-1)	2/22/23	09:22 Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-02 (500-229829-2)	2/22/23	10:50 Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-03 (500-229829-3)	2/22/23	11:59 Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-04 (500-229829-4)	2/22/23	13:02 Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-07 (500-229829-5)	2/22/23	14:35 Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-13 (500-229829-6)	2/21/23	15:24 Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-14 (500-229829-7)	2/21/23	16:07 Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
MW-15 (500-229829-8)	2/21/23	16:54 Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;
1N/1S Duplicate (500-229829-9)	2/21/23	Central	Water			X	X	X	X		3	Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Method of Shipment: _____

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

Relinquished by: STEPHANIE HUNDMAN	Date/Time: 2/23/23 1515	Company: EEIA	Received by: FEDEX	Date/Time: 2/24/23 0840	Company: FEDEX
Relinquished by: FEDEX	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:			



Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Sampler: Mockler, Diana J		Lab P/M: Mockler, Diana J		COC No: 500-171181-2	
Client Contact:				Phone:		E-Mail: Diana.Mockler@eurofins.com		Page: Page 2 of 2	
Shipping/Receiving				Company: TestAmerica Laboratories, Inc.		Address: 13715 Rider Trail North,		Job #: 500-229829-2	
City: Earth City				State: MO, 63045		Date Requested: 3/14/2023		Preservation Codes:	
Phone: 314-298-8566(Tel) 314-298-8757(Fax)				PO #:		TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Project Name: Will County CCR (RAD)				Project #: 50011609		Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)		Special Instructions/Note:	
Site: NRG Midwest Generation Will County				SSOW#: 50011609		Sample Type (C=comp, G=grab)		Total Number of Containers	
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Perform MS/MSD (Yes or No)	
MW-11 (500-229829-10)				2/21/23		14:24 Central		903.0/PreSep_21 Standard Target List	
MW-12 (500-229829-11)				2/21/23		13:29 Central		904.0/PreSep_0 Standard Target List	
								Ra226Ra228 GFC	
								Field Filtered Sample (Yes or No)	
								X	
								X	
								X	
								X	
								X	
								X	
								X	
								33	
								Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	
								Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	

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

Possible Hazard Identification

Unconfirmed Return To Client Disposal By Lab Archive For _____ Months

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

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

Relinquished by: **Stephanie Homandoy** Date/Time: **2/23/23 15:15** Company: **EETA**

Relinquished by: **FedEx** Date/Time: **2/24/23 08:40** Company: **ETA**

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

Custody Seals Intact: Yes No Custody Seal No.: _____

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



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: Mockler, Diana J	Lab PM: Mockler, Diana J	Carrier Tracking No(s): 500-171205.1	COC No: 500-171205.1
Shipping/Receiving		Phone: Diana.Mockler@et.eurofins.com	E-Mail: Diana.Mockler@et.eurofins.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-229829-1	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 Phone: 314-298-8566(Tel) 314-298-8757(Fax) Email:		Due Date Requested: 3/14/2023 TAT Requested (days): PO #: WO #: Project #: 50011609 SSOW#:		Analysis Requested	
Site: NRG Midwest Generation Will County		Matrix (W=water, S=solid, O=wast/soil, B= tissue, A=air)		Total Number of Containers	
Sample Identification - Client ID (Lab ID)		Sample Type (C=comp, G=grab)		Field Filtered Sample (Yes or No)	
MW-08 (500-229829-12)	2/23/23	14:17 Central	Water	X	X
MW-09 (500-229829-13)	2/23/23	15:44 Central	Water	X	X
				Perform MS/MSD (Yes or No)	
				903.0/PrecSep_21 Standard Target List	
				904.0/PrecSep_0 Standard Target List	
				Ra226Ra228_GFPc	
				Special Instructions/Note: Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume; Batch QC must be performed (dup, spikes, etc) - no NCMs concerning limited volume;	

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

Possible Hazard Identification
Unconfirmed

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

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

Special Instructions/QC Requirements:

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

Relinquished by: *Stephanie Humandy* Date/Time: 2/24/23 10:00 Company: *EEIA*

Relinquished by: *FEDEX* Date/Time: *FEB 27 2023 0855* Company: *EEIA*

Relinquished by: *Silvia Worthington* Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Yes No

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229829-2

Login Number: 229829

List Number: 1

Creator: James, Jeff A

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8,1.1,1.4
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: 500-229829-2

Login Number: 229829

List Number: 2

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 02/27/23 12:20 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	



Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-229829-2

Login Number: 229829

List Number: 3

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 02/28/23 10:05 AM

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



Lab Chronicle

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

Job ID: 500-229829-2

Client Sample ID: MW-01

Lab Sample ID: 500-229829-1

Date Collected: 02/22/23 09:22

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 10:20
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602826	FLC	EET SL	03/08/23 12:08
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Client Sample ID: MW-02

Lab Sample ID: 500-229829-2

Date Collected: 02/22/23 10:50

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 10:20
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602826	FLC	EET SL	03/08/23 12:09
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Client Sample ID: MW-03

Lab Sample ID: 500-229829-3

Date Collected: 02/22/23 11:59

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 10:20
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602826	FLC	EET SL	03/08/23 12:09
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Client Sample ID: MW-04

Lab Sample ID: 500-229829-4

Date Collected: 02/22/23 13:02

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 10:20
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602826	FLC	EET SL	03/08/23 12:09
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Lab Chronicle

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

Job ID: 500-229829-2

Client Sample ID: MW-07

Lab Sample ID: 500-229829-5

Date Collected: 02/22/23 14:35

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 10:21
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602826	FLC	EET SL	03/08/23 12:10
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Client Sample ID: MW-13

Lab Sample ID: 500-229829-6

Date Collected: 02/21/23 15:24

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602183	DJP	EET SL	03/02/23 09:21
Total/NA	Analysis	903.0		1	605096	FLC	EET SL	03/27/23 10:07
Total/NA	Prep	PrecSep_0			602192	DJP	EET SL	03/02/23 09:53
Total/NA	Analysis	904.0		1	603500	FLC	EET SL	03/13/23 12:02
Total/NA	Analysis	Ra226_Ra228		1	605252	EMH	EET SL	03/28/23 13:07

Client Sample ID: MW-14

Lab Sample ID: 500-229829-7

Date Collected: 02/21/23 16:07

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 10:22
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602826	FLC	EET SL	03/08/23 13:54
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Client Sample ID: MW-15

Lab Sample ID: 500-229829-8

Date Collected: 02/21/23 16:54

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 10:22
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602826	FLC	EET SL	03/08/23 13:54
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Lab Chronicle

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

Job ID: 500-229829-2

Client Sample ID: 1N/1S Duplicate

Lab Sample ID: 500-229829-9

Date Collected: 02/21/23 00:00

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 10:23
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602861	FLC	EET SL	03/08/23 11:50
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Client Sample ID: MW-11

Lab Sample ID: 500-229829-10

Date Collected: 02/21/23 14:24

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 20:47
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602825	FLC	EET SL	03/08/23 11:58
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Client Sample ID: MW-12

Lab Sample ID: 500-229829-11

Date Collected: 02/21/23 13:29

Matrix: Water

Date Received: 02/22/23 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			601827	DJP	EET SL	02/28/23 09:01
Total/NA	Analysis	903.0		1	604712	FLC	EET SL	03/22/23 20:47
Total/NA	Prep	PrecSep_0			601828	DJP	EET SL	02/28/23 09:47
Total/NA	Analysis	904.0		1	602825	FLC	EET SL	03/08/23 11:59
Total/NA	Analysis	Ra226_Ra228		1	604834	SCB	EET SL	03/23/23 16:56

Client Sample ID: MW-08

Lab Sample ID: 500-229829-12

Date Collected: 02/23/23 14:17

Matrix: Water

Date Received: 02/24/23 09:31

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 07:55
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602566	SCB	EET SL	03/06/23 12:09
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Lab Chronicle

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

Job ID: 500-229829-2

Client Sample ID: MW-09
Date Collected: 02/23/23 15:44
Date Received: 02/24/23 09:31

Lab Sample ID: 500-229829-13
Matrix: Water

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			602034	DJP	EET SL	03/01/23 09:47
Total/NA	Analysis	903.0		1	604790	FLC	EET SL	03/23/23 07:57
Total/NA	Prep	PrecSep_0			602036	DJP	EET SL	03/01/23 10:09
Total/NA	Analysis	904.0		1	602566	SCB	EET SL	03/06/23 12:10
Total/NA	Analysis	Ra226_Ra228		1	604811	SCB	EET SL	03/23/23 14:09

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 500-229829-2

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-23

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

Tracer/Carrier Summary

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

Job ID: 500-229829-2

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
500-229829-1	MW-01	83.1	
500-229829-2	MW-02	69.8	
500-229829-3	MW-03	91.5	
500-229829-4	MW-04	88.1	
500-229829-5	MW-07	88.4	
500-229829-6	MW-13	90.7	
500-229829-7	MW-14	92.1	
500-229829-8	MW-15	90.4	
500-229829-9	1N/1S Duplicate	86.2	
500-229829-10	MW-11	68.9	
500-229829-11	MW-12	79.1	
500-229829-11 DU	MW-12	75.1	
500-229829-12	MW-08	65.5	
500-229829-13	MW-09	76.3	
LCS 160-601827/2-A	Lab Control Sample	88.4	
LCS 160-602034/2-A	Lab Control Sample	92.7	
LCS 160-602183/2-A	Lab Control Sample	85.6	
MB 160-601827/1-A	Method Blank	89.5	
MB 160-602034/1-A	Method Blank	88.7	
MB 160-602183/1-A	Method Blank	94.4	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Yield (Acceptance Limits)	
		Ba (30-110)	Y (30-110)
500-229829-1	MW-01	83.1	83.0
500-229829-2	MW-02	69.8	83.7
500-229829-3	MW-03	91.5	89.0
500-229829-4	MW-04	88.1	83.4
500-229829-5	MW-07	88.4	84.1
500-229829-6	MW-13	90.7	82.6
500-229829-7	MW-14	92.1	85.6
500-229829-8	MW-15	90.4	84.5
500-229829-9	1N/1S Duplicate	86.2	87.9
500-229829-10	MW-11	68.9	81.9
500-229829-11	MW-12	79.1	83.7
500-229829-11 DU	MW-12	75.1	84.9
500-229829-12	MW-08	65.5	84.1
500-229829-13	MW-09	76.3	84.5
LCS 160-601828/2-A	Lab Control Sample	88.4	85.2
LCS 160-602036/2-A	Lab Control Sample	92.7	84.5
LCS 160-602192/2-A	Lab Control Sample	85.6	86.0
MB 160-601828/1-A	Method Blank	89.5	83.7
MB 160-602036/1-A	Method Blank	88.7	84.9
MB 160-602192/1-A	Method Blank	94.4	85.2

Tracer/Carrier Summary

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

Job ID: 500-229829-2

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-23-23
Sample Name	MW-05	Start Time	09:00	
Condition of Well	GOOD			
Water Level	9.74	Total Depth	_____	
Well Diameter	PVC - 2 inch	Volume in Well	_____	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR	
Volume Removed	2.5 QTS	W L at Sample Time	9.77	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR + CCR DUPS	Sample Time	09:35	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
09:23	9.78	6.83	10.0	1667	5.0	86.4	4.02
09:26	9.75	6.78	9.5	1867	2.47	82.0	3.64
09:29	9.74	6.80	9.5	1928	1.58	76.6	3.02
09:32	9.76	6.82	9.4	1945	1.26	72.8	2.02
09:35	9.77	6.83	9.3	1948	1.16	70.1	2.18

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

IAN JOHN HANCOCK 

PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-23-23
Sample Name	MW-06	Start Time	11:03	
Condition of Well	GOOD			
Water Level	11.21	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR	
Volume Removed	3 QTS	W L at Sample Time	11.21	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	11:21	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
11:06	11.26	7.57	9.09	986	4.77	40.4	21.67
11:09	11.27	7.54	9.4	986	1.80	-5.9	33.60
11:12	11.23	7.54	9.1	994	1.32	-26.8	21.83
11:15	11.22	7.54	8.5	999	1.13	-42.5	18.23
11:18	—	7.54	8.1	1002	1.03	-49.8	14.12
11:21	11.21	7.54	8.0	100	1.02	-51.0	10.08

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

IAN JOHN HANIGSON



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-23-23
Sample Name	MW-09	Start Time	15:29	
Condition of Well	GOOD			
Water Level	10.88	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR SLIGHT SULPHUR ODDOR	
Volume Removed	2 QTS	WL at Sample Time	11.02	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR SLIGHT SULPHUR ODDOR	
Sample Analysis	CCR 1N/1S & 2S/3S CCA	Sample Time	15:44	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
15:32	11.13	8.70	8.7	1260	4.76	-43.2	13.66
15:35	11.02	9.00	7.9	1238	2.45	-39.2	13.49
15:38	10.96	9.04	7.5	1227	1.85	-36.0	11.31
15:41	10.98	9.05	7.4	1221	1.48	-33.0	10.50
15:44	11.02	9.04	7.4	1219	1.39	-31.9	10.34

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

IAN JOHN HOWIESON



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-23-23
Sample Name	MW-10	Start Time	12:34	
Condition of Well	Good			
Water Level	9.82	Total Depth	_____	
Well Diameter	PVC - 2 inch	Volume in Well	_____	
Method of Purge	Low-Flow	Purge Characteristics	CLOUDY → CLEAR	
Volume Removed	2.5 DR	W L at Sample Time		
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCA + CCR	Sample Time	12:52	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
12:37	9.84	7.19	9.4	1678	5.00	-58.7	84.6
12:40	9.87	7.13	9.2	1635	2.76	-90.5	159.0
12:43	9.89	7.12	8.9	1605	1.87	-94.3	112.8
12:46	9.89	7.11	8.8	1595	1.42	-95.3	77.43
12:49	9.88	7.11	8.8	1591	1.33	-95.6	70.72
12:52	9.85	7.11	8.8	1586	1.14	-95.8	53.32

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

IAN JOHN HOWIESON



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-21-23
Sample Name	MW-11	Start Time	14:06	
Condition of Well	Good			
Water Level	9.82	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	Cloudy / TAN TINT	
Volume Removed	3 QTS	W L at Sample Time	10.01	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLOUDY TAN TINT	
Sample Analysis	CCR	Sample Time	14:24	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
14:09	10.06	7.41	10.4	1297	1.07	-92.9	85.9
14:12	10.02	7.38	10.3	1300	0.95	-104.1	74.7
14:15	10.01	7.35	10.3	1298	0.90	-111.2	71.1
14:18	10.01	7.22	10.3	1300	0.85	-113.5	77.3
14:21	10.03	7.10	10.5	1301	0.83	-112.6	74.1
14:24	10.01	7.08	10.6	1302	0.82	-113.5	51.3

SAMPLING NOTES:

Sampler Name and Company:

KPRG and Associates

IAN JOHN HOWISON



PROJECT NAME	NRG - WILL COUNTY STATION (12313.3)		DATE	2-21-23
Sample Name	MW-12	Start Time	13:11	
Condition of Well	GOOD			
Water Level	10.10	Total Depth	—	
Well Diameter	PVC - 2 inch	Volume in Well	—	
Method of Purge	Low-Flow	Purge Characteristics	APPEARS CLEAR	
Volume Removed	2.5 GTS	WL at Sample Time	10.10	
Method of Sample	Low-Flow	Sample Characteristics	APPEARS CLEAR	
Sample Analysis	CCR	Sample Time	13:29	
Water Quality Meter	YSI ProDss			

Time	Depth to Water (ft)	ph (SU)	Temp (°C)	Spec. Cond (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
13:17	10.13	7.18	7.4	1648	7.44	-66.3	3.43
13:20	10.12	7.17	8.1	1644	5.10	-64.5	2.87
13:23	10.11	7.16	8.1	1625	3.42	-53.1	2.25
13:26	10.10	7.15	8.1	1622	2.98	-47.0	1.96
13:29	10.10	7.15	8.0	1623	2.76	-42.8	1.82

SAMPLING NOTES: BLOCKAGE IN SIDE PUMP WATER LINE / INSECTS.

Sampler Name and Company:

KPRG and Associates

IAN JOHN HOWISON

