

## **DATA SUMMARY POSTING**

Station: Midwest Generation Will County Generating Station

Regulated Unit(s):   Pond 1N (IEPA ID No. W1978100011-01)  
                          Pond 1S (IEPA ID No. W1978100011-02)

In accordance with the new Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments (State CCR Rule) background development groundwater monitoring was initiated for Ponds 1 N and 1 S 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. In addition, Table 2 provides a summary of turbidity data which is included under the State CCR Rule requirements.

No background statistics or proposed Groundwater Protection Standards (GWPSs) are included on these tables since a full round of eight background sampling rounds has not yet been completed. Once completed, the background values and GWPSs will be calculated and proposed as part of the Operating Permit submittal for Ponds 1 N and 1 S. Upon Illinois Environmental Protection Agency approval of the Operating Permit, the approved comparison values will be included for subsequent data comparisons/evaluations.



Table 2. Groundwater Turbidity - Midwest Generation, LLC, Will County Generating Station, Joliet, IL.

Well ID	Date	Turbidity (NTU)
MW-01	2/23/2021	0.64
	4/10/2021	5.81
	4/25/2021	7.69
	5/3/2021	1.74
	5/24/2021	1.83
	6/7/2021	2.32
	6/25/2021	3.5
MW-02	7/12/2021	4.18
	2/25/2021	8.84
	4/10/2021	9.17
	4/25/2021	12.03
	5/3/2021	2.42
	5/24/2021	2.7
	6/7/2021	1.82
MW-03	6/28/2021	3.15
	7/12/2021	4.23
	3/1/2021	0
	4/10/2021	1.45
	4/25/2021	3.41
	5/3/2021	1.61
	5/24/2021	2.06
MW-04	6/8/2021	2.34
	6/28/2021	2.69
	7/12/2021	4.07
	2/22/2021	9.87
	4/10/2021	42.2
	4/25/2021	7.41
	5/3/2021	4.2
MW-07	5/24/2021	4.45
	6/8/2021	2.8
	6/28/2021	12.93
	7/12/2021	3.93
	3/1/2021	6.11
	4/10/2021	6.19
	4/25/2021	6.98
MW-08	5/4/2021	37.65
	5/24/2021	2.54
	6/7/2021	6.21
	6/25/2021	6.02
	7/12/2021	5.13
	3/1/2021	2.3
	4/10/2021	270.98
MW-08	4/25/2021	26.73
	5/4/2021	6.6
	5/28/2021	6.51
	6/7/2021	4.58
	6/28/2021	5.67
	7/12/2021	6.71

Note: dataset currently may include high and low outliers. More than 8 rounds of measurements may be required for background calculations.

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Will County Generating Station, Joliet, IL.

Well ID	Date	Turbidity (NTU)
MW-13	5/4/2021	20.6
	5/25/2021	9.8
	6/7/2021	6.49
	6/28/2021	8.25
	7/12/2021	5.89
MW-14	5/4/2021	6.88
	5/25/2021	3.5
	6/7/2021	2.55
	6/28/2021	7.44
	7/12/2021	4.89
MW-15	5/4/2021	28.65
	5/25/2021	8.89
	6/7/2021	8.82
	6/28/2021	6.48
	7/12/2021	8.52

Note: dataset currently may include high and low outliers. More than 8 rounds of measurements may be required for background calculations.

## ANALYTICAL REPORT

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

Laboratory Job ID: 500-202252-1  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat

*Jodie Bracken*

Authorized for release by:  
8/6/2021 4:59:36 PM

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Designee for

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### LINKS

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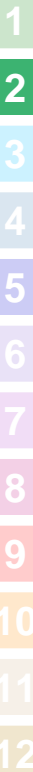


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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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



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# Case Narrative

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

Job ID: 500-202252-1

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## Job ID: 500-202252-1

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Laboratory: Eurofins TestAmerica, Chicago

### Narrative

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#### Job Narrative 500-202252-1

### Comments

No additional comments.

### Receipt

The samples were received on 7/14/2021 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -0.4° C, 0.3° C and 0.5° C.

### Metals

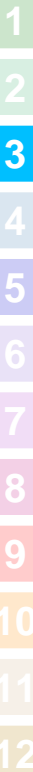
Method 6020A: The internal standard Terbium (Tb) was used to report the elements Lead and Thallium in batch 500-610853. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

Method 6020A: The low level and continuing calibration verification (CCVL/CCV) associated with batch 500-611528 recovered above the upper control limit for Beryllium. The samples associated with this CCV/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: 500-202252-1

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

#### Protocol References:

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

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

#### Laboratory References:

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



# Sample Summary

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

Job ID: 500-202252-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-202252-1	MW-01	Water	07/12/21 09:36	07/14/21 10:05
500-202252-2	MW-02	Water	07/12/21 11:19	07/14/21 10:05
500-202252-3	MW-03	Water	07/12/21 12:53	07/14/21 10:05
500-202252-4	MW-04	Water	07/12/21 12:31	07/14/21 10:05
500-202252-5	MW-07	Water	07/12/21 10:26	07/14/21 10:05
500-202252-6	MW-08	Water	07/12/21 11:42	07/14/21 10:05
500-202252-7	MW-13	Water	07/12/21 12:09	07/14/21 10:05
500-202252-8	MW-14	Water	07/12/21 10:55	07/14/21 10:05
500-202252-9	MW-15	Water	07/12/21 10:04	07/14/21 10:05
500-202252-10	Duplicate	Water	07/12/21 00:00	07/14/21 10:05

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

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-01**  
Date Collected: 07/12/21 09:36  
Date Received: 07/14/21 10:05

**Lab Sample ID: 500-202252-1**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.045		0.010		mg/L		07/22/21 08:20	07/22/21 19:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 20:21	1
Arsenic	0.0012		0.0010		mg/L		07/26/21 08:33	07/27/21 16:38	1
Barium	0.10		0.0025		mg/L		07/22/21 08:20	07/22/21 20:21	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:33	07/26/21 19:41	1
Boron	2.4		0.25		mg/L		07/26/21 08:33	07/27/21 12:59	5
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:21	1
Calcium	190		0.20		mg/L		07/22/21 08:20	07/22/21 20:21	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:21	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:20	07/22/21 20:21	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:21	1
Molybdenum	0.013		0.0050		mg/L		07/22/21 08:20	07/22/21 20:21	1
Selenium	0.012		0.0025		mg/L		07/22/21 08:20	07/22/21 20:21	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 07:23	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			07/15/21 07:04	1
Chloride	16		2.0		mg/L			08/04/21 11:23	1
Fluoride	0.60		0.10		mg/L			07/26/21 10:47	1
Sulfate	320		50		mg/L			08/06/21 11:27	10

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-02**  
Date Collected: 07/12/21 11:19  
Date Received: 07/14/21 10:05

**Lab Sample ID: 500-202252-2**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.051		0.010		mg/L		07/22/21 08:20	07/22/21 20:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 20:24	1
Arsenic	0.012		0.0010		mg/L		07/26/21 08:33	07/27/21 16:41	1
Barium	0.067		0.0025		mg/L		07/22/21 08:20	07/22/21 20:24	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:33	07/26/21 19:44	1
Boron	5.2		1.0		mg/L		07/26/21 08:33	07/27/21 13:03	20
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:24	1
Calcium	97		0.20		mg/L		07/22/21 08:20	07/22/21 20:24	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:24	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:20	07/22/21 20:24	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:24	1
Molybdenum	0.071		0.0050		mg/L		07/22/21 08:20	07/22/21 20:24	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:20	07/22/21 20:24	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 20:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 07:25	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			07/15/21 07:07	1
Chloride	21		4.0		mg/L			08/04/21 11:23	2
Fluoride	0.37		0.10		mg/L			07/26/21 10:56	1
Sulfate	480		100		mg/L			08/06/21 11:27	20

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-03**  
Date Collected: 07/12/21 12:53  
Date Received: 07/14/21 10:05

**Lab Sample ID: 500-202252-3**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.048		0.010		mg/L		07/22/21 08:20	07/22/21 20:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 20:42	1
Arsenic	0.0033		0.0010		mg/L		07/26/21 08:33	07/27/21 16:45	1
Barium	0.10		0.0025		mg/L		07/22/21 08:20	07/22/21 20:42	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:33	07/26/21 19:48	1
Boron	3.8		0.50		mg/L		07/26/21 08:33	07/27/21 13:06	10
Cadmium	0.00053		0.00050		mg/L		07/22/21 08:20	07/22/21 20:42	1
Calcium	120		0.20		mg/L		07/22/21 08:20	07/22/21 20:42	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:42	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:20	07/22/21 20:42	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:42	1
Molybdenum	0.028		0.0050		mg/L		07/22/21 08:20	07/22/21 20:42	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:20	07/22/21 20:42	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 20:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 07:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	870		10		mg/L			07/15/21 07:09	1
Chloride	27		2.0		mg/L			08/04/21 11:24	1
Fluoride	0.33		0.10		mg/L			07/26/21 10:59	1
Sulfate	270		50		mg/L			08/06/21 11:27	10

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-04**  
Date Collected: 07/12/21 12:31  
Date Received: 07/14/21 10:05

**Lab Sample ID: 500-202252-4**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.030		0.010		mg/L		07/22/21 08:20	07/22/21 20:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 20:52	1
Arsenic	0.010		0.0010		mg/L		07/26/21 08:33	07/27/21 17:02	1
Barium	0.049		0.0025		mg/L		07/26/21 08:33	07/26/21 20:05	1
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:33	07/26/21 20:05	1
Boron	5.9		1.0		mg/L		07/26/21 08:33	07/27/21 13:23	20
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:52	1
Calcium	320		4.0		mg/L		07/26/21 08:33	07/27/21 13:23	20
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:52	1
Cobalt	0.0016		0.0010		mg/L		07/22/21 08:20	07/22/21 20:52	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:52	1
Molybdenum	0.033		0.0050		mg/L		07/22/21 08:20	07/22/21 20:52	1
Selenium	0.0056		0.0025		mg/L		07/22/21 08:20	07/22/21 20:52	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 07:30	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	2100		10		mg/L			07/15/21 07:12	1
Chloride	16		2.0		mg/L			08/04/21 11:24	1
Fluoride	0.38		0.10		mg/L			07/26/21 11:02	1
Sulfate	970		100		mg/L			08/06/21 11:28	20

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-07**

**Lab Sample ID: 500-202252-5**

Date Collected: 07/12/21 10:26

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.039		0.010		mg/L		07/22/21 08:20	07/22/21 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 20:55	1
Arsenic	0.0044		0.0010		mg/L		07/26/21 08:33	07/27/21 17:06	1
Barium	0.063		0.050		mg/L		07/26/21 08:33	07/27/21 13:37	20
Beryllium	<0.0010	^+	0.0010		mg/L		07/26/21 08:33	07/27/21 17:06	1
Boron	4.6		1.0		mg/L		07/26/21 08:33	07/27/21 13:37	20
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:55	1
Calcium	230		0.20		mg/L		07/22/21 08:20	07/22/21 20:55	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:55	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:20	07/22/21 20:55	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:55	1
Molybdenum	0.050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:55	1
Selenium	0.0031		0.0025		mg/L		07/22/21 08:20	07/22/21 20:55	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 07:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1400		10		mg/L			07/15/21 07:14	1
Chloride	170		20		mg/L			08/06/21 12:11	10
Fluoride	0.65		0.10		mg/L			07/26/21 11:05	1
Sulfate	510		100		mg/L			08/06/21 11:28	20

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-08**

**Lab Sample ID: 500-202252-6**

Date Collected: 07/12/21 11:42

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.022		0.010		mg/L		07/22/21 08:20	07/22/21 20:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 20:59	1
Arsenic	0.013		0.0010		mg/L		07/26/21 08:33	07/27/21 17:09	1
Barium	0.17		0.050		mg/L		07/26/21 08:33	07/27/21 13:41	20
Beryllium	<0.0010	^+	0.0010		mg/L		07/26/21 08:33	07/27/21 17:09	1
Boron	7.0		1.0		mg/L		07/26/21 08:33	07/27/21 13:41	20
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:59	1
Calcium	200		0.20		mg/L		07/22/21 08:20	07/22/21 20:59	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:59	1
Cobalt	0.0012		0.0010		mg/L		07/22/21 08:20	07/22/21 20:59	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:59	1
Molybdenum	0.070		0.0050		mg/L		07/22/21 08:20	07/22/21 20:59	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:20	07/22/21 20:59	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 07:34	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1600		10		mg/L			07/15/21 07:17	1
Chloride	260		40		mg/L			08/04/21 11:33	20
Fluoride	0.50		0.10		mg/L			07/26/21 11:08	1
Sulfate	530		100		mg/L			08/06/21 11:28	20

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-13**

**Lab Sample ID: 500-202252-7**

Date Collected: 07/12/21 12:09

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.010		mg/L		07/22/21 08:20	07/22/21 20:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 21:02	1
Arsenic	0.0015		0.0010		mg/L		07/26/21 08:33	07/27/21 17:19	1
Barium	0.13		0.013		mg/L		07/26/21 08:33	07/27/21 13:44	5
Beryllium	<0.0010	^+	0.0010		mg/L		07/26/21 08:33	07/27/21 17:19	1
Boron	1.6		0.25		mg/L		07/26/21 08:33	07/27/21 13:44	5
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 21:02	1
Calcium	150		0.20		mg/L		07/22/21 08:20	07/22/21 21:02	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 21:02	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:20	07/22/21 21:02	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 21:02	1
Molybdenum	0.014		0.0050		mg/L		07/22/21 08:20	07/22/21 21:02	1
Selenium	0.0090		0.0025		mg/L		07/22/21 08:20	07/22/21 21:02	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 21:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 08:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			07/15/21 07:19	1
Chloride	240		10		mg/L			08/04/21 11:25	5
Fluoride	0.33		0.10		mg/L			07/26/21 11:19	1
Sulfate	220		50		mg/L			08/06/21 11:29	10



# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-14**

**Lab Sample ID: 500-202252-8**

Date Collected: 07/12/21 10:55

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.058		0.010		mg/L		07/22/21 08:20	07/22/21 20:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 21:06	1
Arsenic	0.0061		0.0010		mg/L		07/26/21 08:33	07/27/21 17:23	1
Barium	0.094		0.050		mg/L		07/26/21 08:33	07/27/21 13:48	20
Beryllium	<0.0010	^+	0.0010		mg/L		07/26/21 08:33	07/27/21 17:23	1
Boron	5.2		1.0		mg/L		07/26/21 08:33	07/27/21 13:48	20
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 21:06	1
Calcium	130		0.20		mg/L		07/22/21 08:20	07/22/21 21:06	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 21:06	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:20	07/22/21 21:06	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 21:06	1
Molybdenum	0.049		0.0050		mg/L		07/22/21 08:20	07/22/21 21:06	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:20	07/22/21 21:06	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 21:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 08:08	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1100		10		mg/L			07/15/21 07:22	1
Chloride	92		6.0		mg/L			08/04/21 11:25	3
Fluoride	0.46		0.10		mg/L			07/26/21 11:22	1
Sulfate	470		100		mg/L			08/06/21 11:30	20

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-202252-9**

Date Collected: 07/12/21 10:04

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.025		0.010		mg/L		07/22/21 08:20	07/22/21 20:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 21:09	1
Arsenic	0.0041		0.0010		mg/L		07/26/21 08:33	07/27/21 17:26	1
Barium	0.12		0.025		mg/L		07/26/21 08:33	07/27/21 13:51	10
Beryllium	<0.0010	^+	0.0010		mg/L		07/26/21 08:33	07/27/21 17:26	1
Boron	3.3		0.50		mg/L		07/26/21 08:33	07/27/21 13:51	10
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 21:09	1
Calcium	180		0.20		mg/L		07/22/21 08:20	07/22/21 21:09	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 21:09	1
Cobalt	0.0013		0.0010		mg/L		07/22/21 08:20	07/22/21 21:09	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 21:09	1
Molybdenum	0.028		0.0050		mg/L		07/22/21 08:20	07/22/21 21:09	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:20	07/22/21 21:09	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 21:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 08:10	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			07/15/21 07:25	1
Chloride	110		6.0		mg/L			08/04/21 11:26	3
Fluoride	0.47		0.10		mg/L			07/26/21 11:25	1
Sulfate	510		100		mg/L			08/06/21 11:30	20

# Client Sample Results

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

Job ID: 500-202252-1

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-202252-10**

Date Collected: 07/12/21 00:00

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.023		0.010		mg/L		07/22/21 08:20	07/22/21 20:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 21:13	1
Arsenic	0.014		0.0010		mg/L		07/26/21 08:33	07/27/21 17:30	1
Barium	0.080		0.025		mg/L		07/26/21 08:33	07/27/21 13:55	10
Beryllium	<0.0010	^+	0.0010		mg/L		07/26/21 08:33	07/27/21 17:30	1
Boron	3.6		0.50		mg/L		07/26/21 08:33	07/27/21 13:55	10
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 21:13	1
Calcium	180		0.20		mg/L		07/22/21 08:20	07/22/21 21:13	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 21:13	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:20	07/22/21 21:13	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 21:13	1
Molybdenum	0.080		0.0050		mg/L		07/22/21 08:20	07/22/21 21:13	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:20	07/22/21 21:13	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 21:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 08:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1500		10		mg/L			07/15/21 07:27	1
Chloride	200		10		mg/L			08/06/21 12:11	5
Fluoride	0.53		0.10		mg/L			07/26/21 11:28	1
Sulfate	570		100		mg/L			08/06/21 13:48	20

# Definitions/Glossary

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

Job ID: 500-202252-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F3	Duplicate RPD exceeds the control limit

## Glossary

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

# QC Association Summary

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

Job ID: 500-202252-1

## Metals

### Prep Batch: 609745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total/NA	Water	7470A	
500-202252-2	MW-02	Total/NA	Water	7470A	
500-202252-3	MW-03	Total/NA	Water	7470A	
500-202252-4	MW-04	Total/NA	Water	7470A	
500-202252-5	MW-07	Total/NA	Water	7470A	
500-202252-6	MW-08	Total/NA	Water	7470A	
500-202252-7	MW-13	Total/NA	Water	7470A	
500-202252-8	MW-14	Total/NA	Water	7470A	
500-202252-9	MW-15	Total/NA	Water	7470A	
500-202252-10	Duplicate	Total/NA	Water	7470A	
MB 500-609745/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-609745/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-202252-6 MS	MW-08	Total/NA	Water	7470A	
500-202252-6 MSD	MW-08	Total/NA	Water	7470A	
500-202252-6 DU	MW-08	Total/NA	Water	7470A	

### Analysis Batch: 609989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total/NA	Water	7470A	609745
500-202252-2	MW-02	Total/NA	Water	7470A	609745
500-202252-3	MW-03	Total/NA	Water	7470A	609745
500-202252-4	MW-04	Total/NA	Water	7470A	609745
500-202252-5	MW-07	Total/NA	Water	7470A	609745
500-202252-6	MW-08	Total/NA	Water	7470A	609745
500-202252-7	MW-13	Total/NA	Water	7470A	609745
500-202252-8	MW-14	Total/NA	Water	7470A	609745
500-202252-9	MW-15	Total/NA	Water	7470A	609745
500-202252-10	Duplicate	Total/NA	Water	7470A	609745
MB 500-609745/12-A	Method Blank	Total/NA	Water	7470A	609745
LCS 500-609745/13-A	Lab Control Sample	Total/NA	Water	7470A	609745
500-202252-6 MS	MW-08	Total/NA	Water	7470A	609745
500-202252-6 MSD	MW-08	Total/NA	Water	7470A	609745
500-202252-6 DU	MW-08	Total/NA	Water	7470A	609745

### Prep Batch: 610606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total Recoverable	Water	3005A	
500-202252-2	MW-02	Total Recoverable	Water	3005A	
500-202252-3	MW-03	Total Recoverable	Water	3005A	
500-202252-4	MW-04	Total Recoverable	Water	3005A	
500-202252-5	MW-07	Total Recoverable	Water	3005A	
500-202252-6	MW-08	Total Recoverable	Water	3005A	
500-202252-7	MW-13	Total Recoverable	Water	3005A	
500-202252-8	MW-14	Total Recoverable	Water	3005A	
500-202252-9	MW-15	Total Recoverable	Water	3005A	
500-202252-10	Duplicate	Total Recoverable	Water	3005A	
MB 500-610606/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-610606/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-202252-2 MS	MW-02	Total Recoverable	Water	3005A	
500-202252-2 MSD	MW-02	Total Recoverable	Water	3005A	
500-202252-2 DU	MW-02	Total Recoverable	Water	3005A	

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# QC Association Summary

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

Job ID: 500-202252-1

## Metals

### Analysis Batch: 610799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total Recoverable	Water	6010C	610606
500-202252-2	MW-02	Total Recoverable	Water	6010C	610606
500-202252-3	MW-03	Total Recoverable	Water	6010C	610606
500-202252-4	MW-04	Total Recoverable	Water	6010C	610606
500-202252-5	MW-07	Total Recoverable	Water	6010C	610606
500-202252-6	MW-08	Total Recoverable	Water	6010C	610606
500-202252-7	MW-13	Total Recoverable	Water	6010C	610606
500-202252-8	MW-14	Total Recoverable	Water	6010C	610606
500-202252-9	MW-15	Total Recoverable	Water	6010C	610606
500-202252-10	Duplicate	Total Recoverable	Water	6010C	610606
MB 500-610606/1-A	Method Blank	Total Recoverable	Water	6010C	610606
LCS 500-610606/2-A	Lab Control Sample	Total Recoverable	Water	6010C	610606
500-202252-2 MS	MW-02	Total Recoverable	Water	6010C	610606
500-202252-2 MSD	MW-02	Total Recoverable	Water	6010C	610606
500-202252-2 DU	MW-02	Total Recoverable	Water	6010C	610606

### Analysis Batch: 610853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total Recoverable	Water	6020A	610606
500-202252-2	MW-02	Total Recoverable	Water	6020A	610606
500-202252-3	MW-03	Total Recoverable	Water	6020A	610606
500-202252-4	MW-04	Total Recoverable	Water	6020A	610606
500-202252-5	MW-07	Total Recoverable	Water	6020A	610606
500-202252-6	MW-08	Total Recoverable	Water	6020A	610606
500-202252-7	MW-13	Total Recoverable	Water	6020A	610606
500-202252-8	MW-14	Total Recoverable	Water	6020A	610606
500-202252-9	MW-15	Total Recoverable	Water	6020A	610606
500-202252-10	Duplicate	Total Recoverable	Water	6020A	610606
MB 500-610606/1-A	Method Blank	Total Recoverable	Water	6020A	610606
LCS 500-610606/2-A	Lab Control Sample	Total Recoverable	Water	6020A	610606
500-202252-2 MS	MW-02	Total Recoverable	Water	6020A	610606
500-202252-2 MSD	MW-02	Total Recoverable	Water	6020A	610606
500-202252-2 DU	MW-02	Total Recoverable	Water	6020A	610606

### Prep Batch: 611045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total Recoverable	Water	3005A	
500-202252-2	MW-02	Total Recoverable	Water	3005A	
500-202252-3	MW-03	Total Recoverable	Water	3005A	
500-202252-4	MW-04	Total Recoverable	Water	3005A	
500-202252-5	MW-07	Total Recoverable	Water	3005A	
500-202252-6	MW-08	Total Recoverable	Water	3005A	
500-202252-7	MW-13	Total Recoverable	Water	3005A	
500-202252-8	MW-14	Total Recoverable	Water	3005A	
500-202252-9	MW-15	Total Recoverable	Water	3005A	
500-202252-10	Duplicate	Total Recoverable	Water	3005A	
MB 500-611045/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-611045/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-202252-3 MS	MW-03	Total Recoverable	Water	3005A	
500-202252-3 MSD	MW-03	Total Recoverable	Water	3005A	
500-202252-3 DU	MW-03	Total Recoverable	Water	3005A	

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# QC Association Summary

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

Job ID: 500-202252-1

## Metals

### Analysis Batch: 611296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total Recoverable	Water	6020A	611045
500-202252-2	MW-02	Total Recoverable	Water	6020A	611045
500-202252-3	MW-03	Total Recoverable	Water	6020A	611045
500-202252-4	MW-04	Total Recoverable	Water	6020A	611045
MB 500-611045/1-A	Method Blank	Total Recoverable	Water	6020A	611045
LCS 500-611045/2-A	Lab Control Sample	Total Recoverable	Water	6020A	611045
500-202252-3 MS	MW-03	Total Recoverable	Water	6020A	611045
500-202252-3 MSD	MW-03	Total Recoverable	Water	6020A	611045
500-202252-3 DU	MW-03	Total Recoverable	Water	6020A	611045

### Analysis Batch: 611336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total Recoverable	Water	6020A	611045
500-202252-2	MW-02	Total Recoverable	Water	6020A	611045
500-202252-3	MW-03	Total Recoverable	Water	6020A	611045
500-202252-4	MW-04	Total Recoverable	Water	6020A	611045
500-202252-5	MW-07	Total Recoverable	Water	6020A	611045
500-202252-6	MW-08	Total Recoverable	Water	6020A	611045
500-202252-7	MW-13	Total Recoverable	Water	6020A	611045
500-202252-8	MW-14	Total Recoverable	Water	6020A	611045
500-202252-9	MW-15	Total Recoverable	Water	6020A	611045
500-202252-10	Duplicate	Total Recoverable	Water	6020A	611045
MB 500-611045/1-A	Method Blank	Total Recoverable	Water	6020A	611045
LCS 500-611045/2-A	Lab Control Sample	Total Recoverable	Water	6020A	611045
500-202252-3 MS	MW-03	Total Recoverable	Water	6020A	611045
500-202252-3 MSD	MW-03	Total Recoverable	Water	6020A	611045
500-202252-3 DU	MW-03	Total Recoverable	Water	6020A	611045

### Analysis Batch: 611528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total Recoverable	Water	6020A	611045
500-202252-2	MW-02	Total Recoverable	Water	6020A	611045
500-202252-3	MW-03	Total Recoverable	Water	6020A	611045
500-202252-4	MW-04	Total Recoverable	Water	6020A	611045
500-202252-5	MW-07	Total Recoverable	Water	6020A	611045
500-202252-6	MW-08	Total Recoverable	Water	6020A	611045
500-202252-7	MW-13	Total Recoverable	Water	6020A	611045
500-202252-8	MW-14	Total Recoverable	Water	6020A	611045
500-202252-9	MW-15	Total Recoverable	Water	6020A	611045
500-202252-10	Duplicate	Total Recoverable	Water	6020A	611045
500-202252-3 MS	MW-03	Total Recoverable	Water	6020A	611045
500-202252-3 MSD	MW-03	Total Recoverable	Water	6020A	611045
500-202252-3 DU	MW-03	Total Recoverable	Water	6020A	611045

## General Chemistry

### Analysis Batch: 609435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total/NA	Water	SM 2540C	
500-202252-2	MW-02	Total/NA	Water	SM 2540C	
500-202252-3	MW-03	Total/NA	Water	SM 2540C	

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# QC Association Summary

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

Job ID: 500-202252-1

## General Chemistry (Continued)

### Analysis Batch: 609435 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-4	MW-04	Total/NA	Water	SM 2540C	
500-202252-5	MW-07	Total/NA	Water	SM 2540C	
500-202252-6	MW-08	Total/NA	Water	SM 2540C	
500-202252-7	MW-13	Total/NA	Water	SM 2540C	
500-202252-8	MW-14	Total/NA	Water	SM 2540C	
500-202252-9	MW-15	Total/NA	Water	SM 2540C	
500-202252-10	Duplicate	Total/NA	Water	SM 2540C	
MB 500-609435/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-609435/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 611099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total/NA	Water	SM 4500 F C	
500-202252-2	MW-02	Total/NA	Water	SM 4500 F C	
500-202252-3	MW-03	Total/NA	Water	SM 4500 F C	
500-202252-4	MW-04	Total/NA	Water	SM 4500 F C	
500-202252-5	MW-07	Total/NA	Water	SM 4500 F C	
500-202252-6	MW-08	Total/NA	Water	SM 4500 F C	
500-202252-7	MW-13	Total/NA	Water	SM 4500 F C	
500-202252-8	MW-14	Total/NA	Water	SM 4500 F C	
500-202252-9	MW-15	Total/NA	Water	SM 4500 F C	
500-202252-10	Duplicate	Total/NA	Water	SM 4500 F C	
MB 500-611099/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-611099/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-202252-1 MS	MW-01	Total/NA	Water	SM 4500 F C	
500-202252-1 MSD	MW-01	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 612904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total/NA	Water	SM 4500 CI- E	
500-202252-2	MW-02	Total/NA	Water	SM 4500 CI- E	
500-202252-3	MW-03	Total/NA	Water	SM 4500 CI- E	
500-202252-4	MW-04	Total/NA	Water	SM 4500 CI- E	
500-202252-6	MW-08	Total/NA	Water	SM 4500 CI- E	
500-202252-7	MW-13	Total/NA	Water	SM 4500 CI- E	
500-202252-8	MW-14	Total/NA	Water	SM 4500 CI- E	
500-202252-9	MW-15	Total/NA	Water	SM 4500 CI- E	
MB 500-612904/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-612904/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
500-202252-1 MS	MW-01	Total/NA	Water	SM 4500 CI- E	
500-202252-1 MSD	MW-01	Total/NA	Water	SM 4500 CI- E	

### Analysis Batch: 613109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-5	MW-07	Total/NA	Water	SM 4500 CI- E	
500-202252-10	Duplicate	Total/NA	Water	SM 4500 CI- E	
MB 500-613109/16	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-613109/17	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	



# QC Association Summary

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

Job ID: 500-202252-1

## General Chemistry

### Analysis Batch: 613117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total/NA	Water	SM 4500 SO4 E	
500-202252-2	MW-02	Total/NA	Water	SM 4500 SO4 E	
500-202252-3	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-202252-4	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-202252-5	MW-07	Total/NA	Water	SM 4500 SO4 E	
500-202252-6	MW-08	Total/NA	Water	SM 4500 SO4 E	
500-202252-7	MW-13	Total/NA	Water	SM 4500 SO4 E	
500-202252-8	MW-14	Total/NA	Water	SM 4500 SO4 E	
500-202252-9	MW-15	Total/NA	Water	SM 4500 SO4 E	
500-202252-10	Duplicate	Total/NA	Water	SM 4500 SO4 E	
MB 500-613117/15	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-613117/16	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

# QC Sample Results

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

Job ID: 500-202252-1

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 500-610606/1-A**  
**Matrix: Water**  
**Analysis Batch: 610799**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		07/22/21 08:20	07/22/21 19:45	1

**Lab Sample ID: LCS 500-610606/2-A**  
**Matrix: Water**  
**Analysis Batch: 610799**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.500	0.557		mg/L		111	80 - 120

**Lab Sample ID: 500-202252-2 MS**  
**Matrix: Water**  
**Analysis Batch: 610799**

**Client Sample ID: MW-02**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lithium	0.051		0.500	0.636		mg/L		117	75 - 125

**Lab Sample ID: 500-202252-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 610799**

**Client Sample ID: MW-02**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lithium	0.051		0.500	0.648		mg/L		119	75 - 125	2	20

**Lab Sample ID: 500-202252-2 DU**  
**Matrix: Water**  
**Analysis Batch: 610799**

**Client Sample ID: MW-02**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.051		0.0520		mg/L		2	20

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

**Lab Sample ID: MB 500-610606/1-A**  
**Matrix: Water**  
**Analysis Batch: 610853**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		07/22/21 08:20	07/22/21 20:14	1
Barium	<0.0025		0.0025		mg/L		07/22/21 08:20	07/22/21 20:14	1
Cadmium	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:14	1
Calcium	<0.20		0.20		mg/L		07/22/21 08:20	07/22/21 20:14	1
Chromium	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:14	1
Cobalt	<0.0010		0.0010		mg/L		07/22/21 08:20	07/22/21 20:14	1
Lead	<0.00050		0.00050		mg/L		07/22/21 08:20	07/22/21 20:14	1
Molybdenum	<0.0050		0.0050		mg/L		07/22/21 08:20	07/22/21 20:14	1
Selenium	<0.0025		0.0025		mg/L		07/22/21 08:20	07/22/21 20:14	1
Thallium	<0.0020		0.0020		mg/L		07/22/21 08:20	07/22/21 20:14	1

# QC Sample Results

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

Job ID: 500-202252-1

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

**Lab Sample ID: LCS 500-610606/2-A**  
**Matrix: Water**  
**Analysis Batch: 610853**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.520		mg/L		104	80 - 120
Barium	2.00	2.05		mg/L		102	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Calcium	10.0	10.1		mg/L		101	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.496		mg/L		99	80 - 120
Lead	0.100	0.110		mg/L		110	80 - 120
Molybdenum	1.00	0.977		mg/L		98	80 - 120
Selenium	0.100	0.104		mg/L		104	80 - 120
Thallium	0.100	0.107		mg/L		107	80 - 120

**Lab Sample ID: 500-202252-2 MS**  
**Matrix: Water**  
**Analysis Batch: 610853**

**Client Sample ID: MW-02**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0030		0.500	0.538		mg/L		108	75 - 125
Barium	0.067		2.00	2.12		mg/L		103	75 - 125
Cadmium	<0.00050		0.0500	0.0502		mg/L		100	75 - 125
Calcium	97		10.0	106	4	mg/L		89	75 - 125
Chromium	<0.0050		0.200	0.195		mg/L		97	75 - 125
Cobalt	<0.0010		0.500	0.482		mg/L		96	75 - 125
Lead	<0.00050		0.100	0.105		mg/L		105	75 - 125
Molybdenum	0.071		1.00	1.10		mg/L		102	75 - 125
Selenium	<0.0025		0.100	0.108		mg/L		108	75 - 125
Thallium	<0.0020		0.100	0.102		mg/L		102	75 - 125

**Lab Sample ID: 500-202252-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 610853**

**Client Sample ID: MW-02**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.527		mg/L		105	75 - 125	2	20
Barium	0.067		2.00	2.10		mg/L		102	75 - 125	1	20
Cadmium	<0.00050		0.0500	0.0491		mg/L		98	75 - 125	2	20
Calcium	97		10.0	104	4	mg/L		71	75 - 125	2	20
Chromium	<0.0050		0.200	0.191		mg/L		95	75 - 125	2	20
Cobalt	<0.0010		0.500	0.470		mg/L		94	75 - 125	2	20
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125	1	20
Molybdenum	0.071		1.00	1.08		mg/L		101	75 - 125	2	20
Selenium	<0.0025		0.100	0.106		mg/L		106	75 - 125	2	20
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125	1	20

**Lab Sample ID: 500-202252-2 DU**  
**Matrix: Water**  
**Analysis Batch: 610853**

**Client Sample ID: MW-02**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20

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# QC Sample Results

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

Job ID: 500-202252-1

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

**Lab Sample ID: 500-202252-2 DU**  
**Matrix: Water**  
**Analysis Batch: 610853**

**Client Sample ID: MW-02**  
**Prep Type: Total Recoverable**  
**Prep Batch: 610606**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Barium	0.067		0.0662		mg/L		2	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	97		97.4		mg/L		0.1	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.071		0.0721		mg/L		2	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: MB 500-611045/1-A**  
**Matrix: Water**  
**Analysis Batch: 611296**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010		mg/L		07/26/21 08:33	07/26/21 19:34	1

**Lab Sample ID: MB 500-611045/1-A**  
**Matrix: Water**  
**Analysis Batch: 611336**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		07/26/21 08:33	07/27/21 12:52	1
Boron	<0.050		0.050		mg/L		07/26/21 08:33	07/27/21 12:52	1

**Lab Sample ID: LCS 500-611045/2-A**  
**Matrix: Water**  
**Analysis Batch: 611296**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Beryllium	0.0500	0.0507		mg/L		101	80 - 120

**Lab Sample ID: LCS 500-611045/2-A**  
**Matrix: Water**  
**Analysis Batch: 611336**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Boron	1.00	0.956		mg/L		96	80 - 120

**Lab Sample ID: 500-202252-3 MS**  
**Matrix: Water**  
**Analysis Batch: 611296**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.0030		0.500	0.537		mg/L		107	75 - 125
Barium	0.10		2.00	2.21		mg/L		105	75 - 125
Beryllium	<0.0010		0.0500	0.0507		mg/L		101	75 - 125
Cadmium	<0.00050		0.0500	0.0510		mg/L		101	75 - 125
Calcium	130		10.0	133	4	mg/L		63	75 - 125

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# QC Sample Results

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

Job ID: 500-202252-1

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

**Lab Sample ID: 500-202252-3 MS**  
**Matrix: Water**  
**Analysis Batch: 611296**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	<0.0050		0.200	0.208		mg/L		104	75 - 125
Cobalt	<0.0010		0.500	0.511		mg/L		102	75 - 125
Lead	<0.00050		0.100	0.111		mg/L		111	75 - 125
Molybdenum	0.030		1.00	1.09		mg/L		106	75 - 125
Thallium	<0.0020		0.100	0.110		mg/L		110	75 - 125

**Lab Sample ID: 500-202252-3 MS**  
**Matrix: Water**  
**Analysis Batch: 611336**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Boron	3.8		1.00	4.70		mg/L		86	75 - 125

**Lab Sample ID: 500-202252-3 MS**  
**Matrix: Water**  
**Analysis Batch: 611528**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0033		0.100	0.105		mg/L		102	75 - 125

**Lab Sample ID: 500-202252-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 611296**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.527		mg/L		105	75 - 125	2	20
Barium	0.10		2.00	2.14		mg/L		102	75 - 125	3	20
Beryllium	<0.0010		0.0500	0.0475		mg/L		95	75 - 125	7	20
Cadmium	<0.00050		0.0500	0.0502		mg/L		100	75 - 125	2	20
Calcium	130		10.0	131	4	mg/L		36	75 - 125	2	20
Chromium	<0.0050		0.200	0.204		mg/L		102	75 - 125	2	20
Cobalt	<0.0010		0.500	0.502		mg/L		100	75 - 125	2	20
Lead	<0.00050		0.100	0.108		mg/L		108	75 - 125	2	20
Molybdenum	0.030		1.00	1.06		mg/L		104	75 - 125	3	20
Thallium	<0.0020		0.100	0.108		mg/L		108	75 - 125	3	20

**Lab Sample ID: 500-202252-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 611336**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Boron	3.8		1.00	4.65		mg/L		81	75 - 125	1	20

**Lab Sample ID: 500-202252-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 611528**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.0033		0.100	0.102		mg/L		99	75 - 125	3	20

Eurofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-202252-1

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

**Lab Sample ID: 500-202252-3 DU**  
**Matrix: Water**  
**Analysis Batch: 611296**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Barium	0.10		0.103		mg/L		0.8	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	130		127		mg/L		0.3	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.030		0.0288		mg/L		3	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

**Lab Sample ID: 500-202252-3 DU**  
**Matrix: Water**  
**Analysis Batch: 611336**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	3.8		3.95		mg/L		3	20

**Lab Sample ID: 500-202252-3 DU**  
**Matrix: Water**  
**Analysis Batch: 611528**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 611045**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0033		0.00208	F3	mg/L		46	20
Barium	0.10		0.0961		mg/L		4	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	120		117		mg/L		4	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.029		0.0277		mg/L		3	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 500-609745/12-A**  
**Matrix: Water**  
**Analysis Batch: 609989**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 609745**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		07/16/21 10:10	07/19/21 07:19	1

**Lab Sample ID: LCS 500-609745/13-A**  
**Matrix: Water**  
**Analysis Batch: 609989**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 609745**

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

Euofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-202252-1

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-202252-6 MS  
Matrix: Water  
Analysis Batch: 609989

Client Sample ID: MW-08  
Prep Type: Total/NA  
Prep Batch: 609745  
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000981		mg/L		98	75 - 125

Lab Sample ID: 500-202252-6 MSD  
Matrix: Water  
Analysis Batch: 609989

Client Sample ID: MW-08  
Prep Type: Total/NA  
Prep Batch: 609745  
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000963		mg/L		96	75 - 125	2	20

Lab Sample ID: 500-202252-6 DU  
Matrix: Water  
Analysis Batch: 609989

Client Sample ID: MW-08  
Prep Type: Total/NA  
Prep Batch: 609745  
%Rec.

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

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

Lab Sample ID: MB 500-609435/1  
Matrix: Water  
Analysis Batch: 609435

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			07/15/21 06:36	1

Lab Sample ID: LCS 500-609435/2  
Matrix: Water  
Analysis Batch: 609435

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

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

## Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-612904/16  
Matrix: Water  
Analysis Batch: 612904

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/04/21 11:23	1

Lab Sample ID: LCS 500-612904/17  
Matrix: Water  
Analysis Batch: 612904

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

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

# QC Sample Results

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

Job ID: 500-202252-1

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

Lab Sample ID: 500-202252-1 MS  
Matrix: Water  
Analysis Batch: 612904

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	16		20.0	34.1		mg/L		90	75 - 125

Lab Sample ID: 500-202252-1 MSD  
Matrix: Water  
Analysis Batch: 612904

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	16		20.0	33.9		mg/L		89	75 - 125	1	20

Lab Sample ID: MB 500-613109/16  
Matrix: Water  
Analysis Batch: 613109

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/06/21 12:11	1

Lab Sample ID: LCS 500-613109/17  
Matrix: Water  
Analysis Batch: 613109

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20.0	19.9		mg/L		99	85 - 115

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-611099/3  
Matrix: Water  
Analysis Batch: 611099

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			07/26/21 10:42	1

Lab Sample ID: LCS 500-611099/4  
Matrix: Water  
Analysis Batch: 611099

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	10.8		mg/L		108	80 - 120

Lab Sample ID: 500-202252-1 MS  
Matrix: Water  
Analysis Batch: 611099

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.60		5.00	5.94		mg/L		107	75 - 125



# QC Sample Results

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

Job ID: 500-202252-1

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

Lab Sample ID: 500-202252-1 MSD  
Matrix: Water  
Analysis Batch: 611099

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.60		5.00	5.94		mg/L		107	75 - 125	0	20

## Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-613117/15  
Matrix: Water  
Analysis Batch: 613117

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			08/06/21 11:26	1

Lab Sample ID: LCS 500-613117/16  
Matrix: Water  
Analysis Batch: 613117

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	19.4		mg/L		97	80 - 120

**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**

eurofins Environment Testing Amer.ca

<b>Client Information</b>		Sampler		Lab PM. Mockler Diana J		Carrier Tracking No(s)		COC No 500-92903-41387 1			
Client Contact Richard Gnat		Phone		E-Mail Diana.Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1			
Company KPRG and Associates Inc		PWSID		<b>Analysis Requested</b>						Job # 500-202252	
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		 <p>500-202252 COC</p>						<b>Preservation Codes</b> 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 Z other (specify)	
City Brookfield		TAT Requested (days)									
State Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone		PO # 4502041043									
Email richardg@kprginc.com		WO #									
Project Name Will County CCR Event Desc Quarterly GW Monitoring		Project # 50011609		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers			
Site Illinois		SSOW#		903.0, 904.0		6010C, 6020A, 7470A		2540C 4500_F_C, SM4500_CLE, SM4500_S04_E			
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note	
						Preservation Code					
1	MW-01	7-12	0936		Water			X	X	X	
2	MW-02	7-12	1119		Water						
3	MW-03	7-12	1253		Water						
4	MW-04	7-12	1231		Water						
5	MW-07	7-12	1026		Water						
6	MW-08	7-12	1142		Water						
7	MW-13	7-12	<del>1155</del> 1209		Water						
8	MW-14	7-12	1055		Water						
9	MW-15	7-12	1004		Water						
10	Duplicate	7-12	-		Water			✓	✓	✓	
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<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 7/12/21 for all sample dates					
Empty Kit Relinquished by				Date		Time		Method of Shipment:			
Relinquished by		Date/Time		Company		Received by		Date/Time		Company	
<i>[Signature]</i>		7-12		KPRG		<i>[Signature]</i>		7-13-21 1400		TA	
Relinquished by		Date/Time		Company		Received by		Date/Time		Company	
<i>[Signature]</i>		7-13-21 1700		TA		Stephanie Hemondy		7-14-21 1005		ETA-CH	
Relinquished by		Date/Time		Company		Received by		Date/Time		Company	
Custody Seals Intact.		Custody Seal No		Cooler Temperature(s) °C and Other Remarks							
<input type="checkbox"/> Yes <input type="checkbox"/> No										-0.4, 0.3, 0.5	



500-202252 Wayb

ORIGIN ID: RRLA 262 202-5955  
SHIPPING  
TESTAMERICA  
4125 N 124TH ST

BROOKFIELD, WI 53005  
UNITED STATES US

SHIP DATE: 13JUL21  
ACTWGT: 67.15 LB  
CAD: 525155/CAFE3406

BILL RECIPIENT

TO **SAMPLE RECEIPT**  
**TESTAMERICA LABS**  
**2417 BOND STREET**

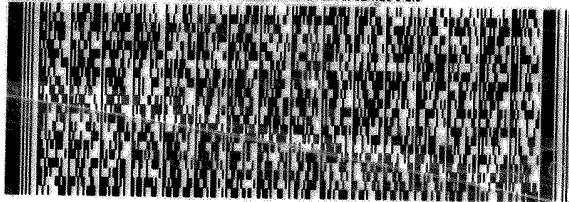
**UNIVERSITY PARK IL 60484**

(708) 634-6200

REF:

INV:

DEPT:



2 of 3

MPS# 7125 4944 8595  
0269

Mstr# 7125 4944 8584

0201

**79 JOTA**

**WED - 14 JUL 10:30A**  
**PRIORITY OVERNIGHT**

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



OR (262) 202-5955  
SH: 4125  
TES: ST

SH.P DATE: 13JUL21  
ACTWGT: 64.75 LB  
CAD: 525155/CAFE3406

BROOKFIELD, WI 53005  
UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIPT**  
**TESTAMERICA LABS**  
**2417 BOND STREET**

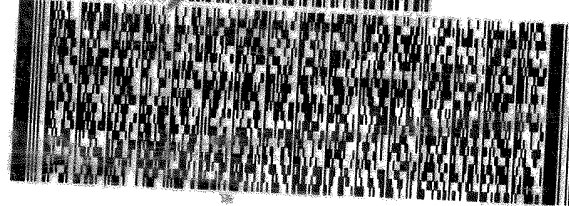
**UNIVERSITY PARK IL 60484**

(708) 634-6200

REF:

INV:

DEPT:



1 of 3

TRK# 7125 4944 8584  
ORD#

## MASTER ##

**79 JOTA**

**WED - 14 JUL 10:30A**  
**PRIORITY OVERNIGHT**

60484



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

ORIGIN ID:RRLA (262) 202-5955  
 SHIPPING  
 TESTAMERICA  
 4125 N 124TH ST

SHIP DATE: 13JUL21  
 ACTWGT: 61.75 LB  
 CAD: 525155/CAFE3406

BROOKFIELD, WI 53005  
 UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIPT**  
**TESTAMERICA LABS**  
**2417 BOND STREET**

58112/0PAC/054P

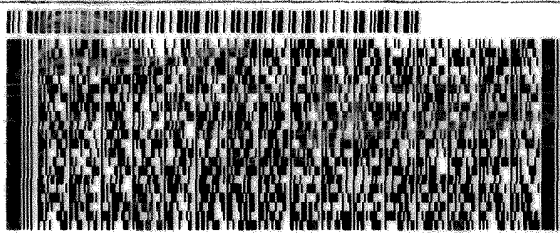
**UNIVERSITY PARK IL 60484**

(708) 584-5200

REF:

INQ:

DEPT:



3 of 3

MPS# 7125 4944 8600  
 0263

Mstr# 7125 4944 8584

0201

**WED - 14 JUL 10:30**  
**PRIORITY OVERNIGHT**

**79 JOTA**

**6048**  
 IL-US OF

# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-202252-1

**Login Number: 202252**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.4,0.3,0.5 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# Lab Chronicle

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

Job ID: 500-202252-1

**Client Sample ID: MW-01**

**Lab Sample ID: 500-202252-1**

**Date Collected: 07/12/21 09:36**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 19:59	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 20:21	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 19:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	611336	07/27/21 12:59	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 16:38	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 07:23	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:04	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	612904	08/04/21 11:23	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 10:47	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	613117	08/06/21 11:27	MS	TAL CHI

**Client Sample ID: MW-02**

**Lab Sample ID: 500-202252-2**

**Date Collected: 07/12/21 11:19**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:03	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 20:24	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 19:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	611336	07/27/21 13:03	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 16:41	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 07:25	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:07	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		2	612904	08/04/21 11:23	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 10:56	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:27	MS	TAL CHI

# Lab Chronicle

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

Job ID: 500-202252-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-202252-3**

**Date Collected: 07/12/21 12:53**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:21	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 20:42	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 19:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	611336	07/27/21 13:06	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 16:45	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 07:28	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:09	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	612904	08/04/21 11:24	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 10:59	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	613117	08/06/21 11:27	MS	TAL CHI

**Client Sample ID: MW-04**

**Lab Sample ID: 500-202252-4**

**Date Collected: 07/12/21 12:31**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:25	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 20:52	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611296	07/26/21 20:05	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	611336	07/27/21 13:23	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 17:02	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 07:30	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:12	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		1	612904	08/04/21 11:24	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 11:02	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:28	MS	TAL CHI

# Lab Chronicle

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

Job ID: 500-202252-1

**Client Sample ID: MW-07**

**Lab Sample ID: 500-202252-5**

**Date Collected: 07/12/21 10:26**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:29	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 20:55	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	611336	07/27/21 13:37	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 17:06	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 07:32	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:14	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		10	613109	08/06/21 12:11	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 11:05	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:28	MS	TAL CHI

**Client Sample ID: MW-08**

**Lab Sample ID: 500-202252-6**

**Date Collected: 07/12/21 11:42**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:44	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 20:59	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	611336	07/27/21 13:41	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 17:09	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 07:34	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:17	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		20	612904	08/04/21 11:33	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 11:08	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:28	MS	TAL CHI

**Client Sample ID: MW-13**

**Lab Sample ID: 500-202252-7**

**Date Collected: 07/12/21 12:09**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:48	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 21:02	FXG	TAL CHI

Eurofins TestAmerica, Chicago



# Lab Chronicle

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

Job ID: 500-202252-1

**Client Sample ID: MW-13**  
**Date Collected: 07/12/21 12:09**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		5	611336	07/27/21 13:44	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 17:19	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 08:02	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	612904	08/04/21 11:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 11:19	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		10	613117	08/06/21 11:29	MS	TAL CHI

**Client Sample ID: MW-14**  
**Date Collected: 07/12/21 10:55**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:52	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 21:06	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		20	611336	07/27/21 13:48	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 17:23	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 08:08	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:22	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		3	612904	08/04/21 11:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 11:22	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:30	MS	TAL CHI

**Client Sample ID: MW-15**  
**Date Collected: 07/12/21 10:04**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:55	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 21:09	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	611336	07/27/21 13:51	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 17:26	FXG	TAL CHI

Eurofins TestAmerica, Chicago

# Lab Chronicle

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

Job ID: 500-202252-1

**Client Sample ID: MW-15**

**Lab Sample ID: 500-202252-9**

**Date Collected: 07/12/21 10:04**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 08:10	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:25	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		3	612904	08/04/21 11:26	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 11:25	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 11:30	MS	TAL CHI

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-202252-10**

**Date Collected: 07/12/21 00:00**

**Matrix: Water**

**Date Received: 07/14/21 10:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6010C		1	610799	07/22/21 20:59	EEN	TAL CHI
Total Recoverable	Prep	3005A			610606	07/22/21 08:20	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	610853	07/22/21 21:13	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		10	611336	07/27/21 13:55	FXG	TAL CHI
Total Recoverable	Prep	3005A			611045	07/26/21 08:33	BDE	TAL CHI
Total Recoverable	Analysis	6020A		1	611528	07/27/21 17:30	FXG	TAL CHI
Total/NA	Prep	7470A			609745	07/16/21 10:10	MJG	TAL CHI
Total/NA	Analysis	7470A		1	609989	07/19/21 08:12	MJG	TAL CHI
Total/NA	Analysis	SM 2540C		1	609435	07/15/21 07:27	CLB	TAL CHI
Total/NA	Analysis	SM 4500 CI- E		5	613109	08/06/21 12:11	MS	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	611099	07/26/21 11:28	MS	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		20	613117	08/06/21 13:48	MS	TAL CHI

**Laboratory References:**

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


## ANALYTICAL REPORT

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

Laboratory Job ID: 500-202252-2  
Client Project/Site: Will County CCR

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

Attn: Richard Gnat



Authorized for release by:  
8/18/2021 8:18:12 AM

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

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

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

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# Case Narrative

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

Job ID: 500-202252-2

## Job ID: 500-202252-2

### Laboratory: Eurofins TestAmerica, Chicago

#### Narrative

#### Job Narrative 500-202252-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 7/14/2021 10:05 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were -0.4° C, 0.3° C and 0.5° C.

#### RAD

Method 903.0: Radium-226 Batch 519532

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 (500-202252-1), MW-02 (500-202252-2), MW-03 (500-202252-3), MW-04 (500-202252-4), MW-07 (500-202252-5), MW-08 (500-202252-6), MW-13 (500-202252-7), (LCS 160-519532/1-A), (MB 160-519532/23-A) and (500-202252-D-1-B DU)

Method 903.0: Radium-226 prep batch 160-519887:

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-14 (500-202252-8), MW-15 (500-202252-9), Duplicate (500-202252-10), (LCS 160-519887/1-A), (MB 160-519887/22-A), (480-187240-D-7-A), (480-187240-C-7-A MS) and (480-187240-C-7-B MSD)

Method 904.0: Radium-228 Batch 519991

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-14 (500-202252-8), MW-15 (500-202252-9), Duplicate (500-202252-10), (LCS 160-519991/1-A), (MB 160-519991/22-A), (480-187240-D-7-B), (480-187240-C-7-C MS) and (480-187240-C-7-D MSD)

Method 904.0: Radium-228 prep batch 160-519626:

The following sample was inadvertently counted on a detector that failed the daily beta check and did not have the daily background check performed. The only sample that counted on the detector was the laboratory control sample (LCS). Since the LCS is within criteria, the lab does not believe this excursion adversely affects the data. The data have been reported with this narrative. (LCS 160-519626/1-A)

Method 904.0: Radium-228 prep batch 160-519626:

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 (500-202252-1), MW-02 (500-202252-2), MW-03 (500-202252-3), MW-04 (500-202252-4), MW-07 (500-202252-5), MW-08 (500-202252-6), MW-13 (500-202252-7), (LCS 160-519626/1-A), (MB 160-519626/23-A) and (500-202252-D-1-C DU)

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

# Method Summary

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

Job ID: 500-202252-2

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

#### Protocol References:

EPA = US Environmental Protection Agency

None = None

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

#### Laboratory References:

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



# Sample Summary

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

Job ID: 500-202252-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-202252-1	MW-01	Water	07/12/21 09:36	07/14/21 10:05
500-202252-2	MW-02	Water	07/12/21 11:19	07/14/21 10:05
500-202252-3	MW-03	Water	07/12/21 12:53	07/14/21 10:05
500-202252-4	MW-04	Water	07/12/21 12:31	07/14/21 10:05
500-202252-5	MW-07	Water	07/12/21 10:26	07/14/21 10:05
500-202252-6	MW-08	Water	07/12/21 11:42	07/14/21 10:05
500-202252-7	MW-13	Water	07/12/21 12:09	07/14/21 10:05
500-202252-8	MW-14	Water	07/12/21 10:55	07/14/21 10:05
500-202252-9	MW-15	Water	07/12/21 10:04	07/14/21 10:05
500-202252-10	Duplicate	Water	07/12/21 00:00	07/14/21 10:05

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# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-01**

**Lab Sample ID: 500-202252-1**

Date Collected: 07/12/21 09:36

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0909	U	0.0803	0.0807	1.00	0.124	pCi/L	07/21/21 13:11	08/12/21 07:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					07/21/21 13:11	08/12/21 07:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.366	U	0.265	0.267	1.00	0.415	pCi/L	07/21/21 14:26	07/27/21 09:23	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					07/21/21 14:26	07/27/21 09:23	1
Y Carrier	84.2		40 - 110					07/21/21 14:26	07/27/21 09:23	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.457</b>		0.277	0.279	5.00	0.415	pCi/L		08/13/21 14:41	1



# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-02**

**Lab Sample ID: 500-202252-2**

Date Collected: 07/12/21 11:19

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.280		0.113	0.116	1.00	0.133	pCi/L	07/21/21 13:11	08/12/21 07:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					07/21/21 13:11	08/12/21 07:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.792		0.299	0.308	1.00	0.408	pCi/L	07/21/21 14:26	07/27/21 09:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.3		40 - 110					07/21/21 14:26	07/27/21 09:27	1
Y Carrier	88.4		40 - 110					07/21/21 14:26	07/27/21 09:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.07		0.320	0.329	5.00	0.408	pCi/L		08/13/21 14:41	1

# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-03**

**Lab Sample ID: 500-202252-3**

Date Collected: 07/12/21 12:53

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.426		0.125	0.130	1.00	0.118	pCi/L	07/21/21 13:11	08/12/21 07:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					07/21/21 13:11	08/12/21 07:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.55		0.383	0.408	1.00	0.478	pCi/L	07/21/21 14:26	07/27/21 09:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	83.7		40 - 110					07/21/21 14:26	07/27/21 09:27	1
Y Carrier	86.3		40 - 110					07/21/21 14:26	07/27/21 09:27	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.97		0.403	0.428	5.00	0.478	pCi/L		08/13/21 14:41	1

# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-04**  
Date Collected: 07/12/21 12:31  
Date Received: 07/14/21 10:05

**Lab Sample ID: 500-202252-4**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.242</b>		0.102	0.104	1.00	0.119	pCi/L	07/21/21 13:11	08/12/21 07:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					07/21/21 13:11	08/12/21 07:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>1.44</b>		0.353	0.377	1.00	0.432	pCi/L	07/21/21 14:26	07/27/21 09:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.4		40 - 110					07/21/21 14:26	07/27/21 09:28	1
Y Carrier	89.3		40 - 110					07/21/21 14:26	07/27/21 09:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.68</b>		0.367	0.391	5.00	0.432	pCi/L		08/13/21 14:41	1

# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-07**

**Lab Sample ID: 500-202252-5**

Date Collected: 07/12/21 10:26

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.250		0.103	0.105	1.00	0.121	pCi/L	07/21/21 13:11	08/12/21 07:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					07/21/21 13:11	08/12/21 07:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.15		0.310	0.328	1.00	0.368	pCi/L	07/21/21 14:26	07/27/21 09:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.7		40 - 110					07/21/21 14:26	07/27/21 09:28	1
Y Carrier	83.6		40 - 110					07/21/21 14:26	07/27/21 09:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.40		0.327	0.344	5.00	0.368	pCi/L		08/13/21 14:41	1

# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-08**  
Date Collected: 07/12/21 11:42  
Date Received: 07/14/21 10:05

**Lab Sample ID: 500-202252-6**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.220		0.0985	0.100	1.00	0.117	pCi/L	07/21/21 13:11	08/12/21 07:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					07/21/21 13:11	08/12/21 07:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.622		0.288	0.294	1.00	0.415	pCi/L	07/21/21 14:26	07/27/21 09:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.0		40 - 110					07/21/21 14:26	07/27/21 09:28	1
Y Carrier	85.7		40 - 110					07/21/21 14:26	07/27/21 09:28	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	0.841		0.304	0.311	5.00	0.415	pCi/L		08/13/21 14:41	1

# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-13**  
Date Collected: 07/12/21 12:09  
Date Received: 07/14/21 10:05

**Lab Sample ID: 500-202252-7**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.401		0.119	0.125	1.00	0.112	pCi/L	07/21/21 13:11	08/12/21 07:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					07/21/21 13:11	08/12/21 07:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.679		0.301	0.307	1.00	0.424	pCi/L	07/21/21 14:26	07/27/21 09:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.5		40 - 110					07/21/21 14:26	07/27/21 09:29	1
Y Carrier	81.5		40 - 110					07/21/21 14:26	07/27/21 09:29	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.08		0.324	0.331	5.00	0.424	pCi/L		08/13/21 14:41	1

# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-14**  
Date Collected: 07/12/21 10:55  
Date Received: 07/14/21 10:05

**Lab Sample ID: 500-202252-8**  
Matrix: Water

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.298</b>		0.108	0.111	1.00	0.118	pCi/L	07/23/21 10:18	08/16/21 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					07/23/21 10:18	08/16/21 12:25	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.772</b>		0.302	0.310	1.00	0.427	pCi/L	07/23/21 11:18	07/29/21 09:03	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		40 - 110					07/23/21 11:18	07/29/21 09:03	1
Y Carrier	89.6		40 - 110					07/23/21 11:18	07/29/21 09:03	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>1.07</b>		0.321	0.329	5.00	0.427	pCi/L		08/17/21 22:33	1

# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: MW-15**

**Lab Sample ID: 500-202252-9**

Date Collected: 07/12/21 10:04

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-226</b>	<b>0.276</b>		0.101	0.104	1.00	0.108	pCi/L	07/23/21 10:18	08/16/21 12:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					07/23/21 10:18	08/16/21 12:25	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Radium-228</b>	<b>0.654</b>		0.264	0.270	1.00	0.371	pCi/L	07/23/21 11:18	07/29/21 09:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		40 - 110					07/23/21 11:18	07/29/21 09:05	1
Y Carrier	92.9		40 - 110					07/23/21 11:18	07/29/21 09:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
<b>Combined Radium 226 + 228</b>	<b>0.931</b>		0.283	0.289	5.00	0.371	pCi/L		08/17/21 22:33	1



# Client Sample Results

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

Job ID: 500-202252-2

**Client Sample ID: Duplicate**

**Lab Sample ID: 500-202252-10**

Date Collected: 07/12/21 00:00

Matrix: Water

Date Received: 07/14/21 10:05

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.208		0.0887	0.0906	1.00	0.103	pCi/L	07/23/21 10:18	08/16/21 12:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					07/23/21 10:18	08/16/21 12:26	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.74		0.328	0.366	1.00	0.362	pCi/L	07/23/21 11:18	07/29/21 09:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		40 - 110					07/23/21 11:18	07/29/21 09:05	1
Y Carrier	94.9		40 - 110					07/23/21 11:18	07/29/21 09:05	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Combined Radium 226 + 228	1.95		0.340	0.377	5.00	0.362	pCi/L		08/17/21 22:33	1

# Definitions/Glossary

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

Job ID: 500-202252-2

## 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

Job ID: 500-202252-2

## Rad

### Prep Batch: 519532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total/NA	Water	PrecSep-21	
500-202252-2	MW-02	Total/NA	Water	PrecSep-21	
500-202252-3	MW-03	Total/NA	Water	PrecSep-21	
500-202252-4	MW-04	Total/NA	Water	PrecSep-21	
500-202252-5	MW-07	Total/NA	Water	PrecSep-21	
500-202252-6	MW-08	Total/NA	Water	PrecSep-21	
500-202252-7	MW-13	Total/NA	Water	PrecSep-21	
MB 160-519532/23-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-519532/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-202252-1 DU	MW-01	Total/NA	Water	PrecSep-21	

### Prep Batch: 519626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-1	MW-01	Total/NA	Water	PrecSep_0	
500-202252-2	MW-02	Total/NA	Water	PrecSep_0	
500-202252-3	MW-03	Total/NA	Water	PrecSep_0	
500-202252-4	MW-04	Total/NA	Water	PrecSep_0	
500-202252-5	MW-07	Total/NA	Water	PrecSep_0	
500-202252-6	MW-08	Total/NA	Water	PrecSep_0	
500-202252-7	MW-13	Total/NA	Water	PrecSep_0	
MB 160-519626/23-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-519626/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-202252-1 DU	MW-01	Total/NA	Water	PrecSep_0	

### Prep Batch: 519887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-8	MW-14	Total/NA	Water	PrecSep-21	
500-202252-9	MW-15	Total/NA	Water	PrecSep-21	
500-202252-10	Duplicate	Total/NA	Water	PrecSep-21	
MB 160-519887/22-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-519887/1-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

### Prep Batch: 519991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-202252-8	MW-14	Total/NA	Water	PrecSep_0	
500-202252-9	MW-15	Total/NA	Water	PrecSep_0	
500-202252-10	Duplicate	Total/NA	Water	PrecSep_0	
MB 160-519991/22-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-519991/1-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

# QC Sample Results

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

Job ID: 500-202252-2

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

**Lab Sample ID: MB 160-519532/23-A**  
**Matrix: Water**  
**Analysis Batch: 522400**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 519532**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02363	U	0.0663	0.0663	1.00	0.121	pCi/L	07/21/21 13:11	08/12/21 07:09	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					07/21/21 13:11	08/12/21 07:09	1
	87.3									

**Lab Sample ID: LCS 160-519532/1-A**  
**Matrix: Water**  
**Analysis Batch: 522398**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 519532**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.12		1.06	1.00	0.120	pCi/L	89	75 - 125
Carrier	LCS	LCS	Limits						
Ba Carrier	%Yield	Qualifier	40 - 110						
	86.8								

**Lab Sample ID: 500-202252-1 DU**  
**Matrix: Water**  
**Analysis Batch: 522459**

**Client Sample ID: MW-01**  
**Prep Type: Total/NA**  
**Prep Batch: 519532**

Analyte	Sample		DU	DU	Total	RL	MDC	Unit	RER	RER Limit
	Result	Sample Qual	Result	Qual	Uncert. (2σ+/-)					
Radium-226	0.0909	U	0.1791		0.0922	1.00	0.118	pCi/L	0.51	1
Carrier	DU	DU	Limits							
Ba Carrier	%Yield	Qualifier	40 - 110							
	93.2									

**Lab Sample ID: MB 160-519887/22-A**  
**Matrix: Water**  
**Analysis Batch: 522821**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 519887**

Analyte	MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	MB Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.03537	U	0.0721	0.0721	1.00	0.127	pCi/L	07/23/21 10:18	08/16/21 12:28	1
Carrier	MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	MB Qualifier	40 - 110					07/23/21 10:18	08/16/21 12:28	1
	94.9									

**Lab Sample ID: LCS 160-519887/1-A**  
**Matrix: Water**  
**Analysis Batch: 522816**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 519887**

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec. Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.26		1.06	1.00	0.0985	pCi/L	90	75 - 125

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# QC Sample Results

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

Job ID: 500-202252-2

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

Lab Sample ID: LCS 160-519887/1-A  
Matrix: Water  
Analysis Batch: 522816

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 519887

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	91.6		40 - 110

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

Lab Sample ID: MB 160-519626/23-A  
Matrix: Water  
Analysis Batch: 520324

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 519626

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.9414		0.306	0.318	1.00	0.397	pCi/L	07/21/21 14:26	07/27/21 09:29	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		40 - 110					07/21/21 14:26	07/27/21 09:29	1
Y Carrier	83.6		40 - 110					07/21/21 14:26	07/27/21 09:29	1

Lab Sample ID: LCS 160-519626/1-A  
Matrix: Water  
Analysis Batch: 520351

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 519626

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	9.49	9.846		1.16	1.00	0.457	pCi/L	104	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	86.8		40 - 110						
Y Carrier	82.4		40 - 110						

Lab Sample ID: 500-202252-1 DU  
Matrix: Water  
Analysis Batch: 520351

Client Sample ID: MW-01  
Prep Type: Total/NA  
Prep Batch: 519626

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.366	U	0.9630		0.296	1.00	0.356	pCi/L	1.06	1
Carrier	DU %Yield	DU Qualifier	Limits							
Ba Carrier	93.2		40 - 110							
Y Carrier	86.9		40 - 110							

Lab Sample ID: MB 160-519991/22-A  
Matrix: Water  
Analysis Batch: 520679

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 519991

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4830		0.216	0.220	1.00	0.302	pCi/L	07/23/21 11:18	07/29/21 09:05	1

Eurofins TestAmerica, Chicago

# QC Sample Results

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

Job ID: 500-202252-2

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

**Lab Sample ID: MB 160-519991/22-A**  
**Matrix: Water**  
**Analysis Batch: 520679**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 519991**

Carrier	MB MB		Limits
	%Yield	Qualifier	
Ba Carrier	94.9		40 - 110
Y Carrier	93.8		40 - 110

Prepared	Analyzed	Dil Fac
07/23/21 11:18	07/29/21 09:05	1
07/23/21 11:18	07/29/21 09:05	1

**Lab Sample ID: LCS 160-519991/1-A**  
**Matrix: Water**  
**Analysis Batch: 520678**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 519991**

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
									75 - 125
Radium-228	9.48	9.842		1.12	1.00	0.349	pCi/L	104	75 - 125


Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	91.6		40 - 110
Y Carrier	91.4		40 - 110

**Eurofins TestAmerica, Chicago**

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

**Chain of Custody Record**

eurofins Environment Testing Amer.ca

<b>Client Information</b>		Sampler		Lab PM. Mockler Diana J		Carrier Tracking No(s)		COC No 500-92903-41387 1			
Client Contact Richard Gnat		Phone		E-Mail Diana.Mockler@Eurofinset.com		State of Origin		Page Page 1 of 1			
Company KPRG and Associates Inc		PWSID		<b>Analysis Requested</b>						Job # 500-202252	
Address 14665 West Lisbon Road Suite 1A		Due Date Requested		 500-202252 COC						<b>Preservation Codes</b> 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 Z other (specify)	
City Brookfield		TAT Requested (days)									
State Zip WI 53005		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No									
Phone		PO # 4502041043									
Email richardg@kprginc.com		WO #									
Project Name Will County CCR Event Desc Quarterly GW Monitoring		Project # 50011609		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers			
Site Illinois		SSOW#		903.0, 904.0		6010C, 6020A, 7470A		2540C 4500_F_C, SM4500_CLE, SM4500_S04_E			
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Special Instructions/Note	
						Preservation Code					
1	MW-01	7-12	0936		Water			X	X	X	
2	MW-02	7-12	1119		Water						
3	MW-03	7-12	1253		Water						
4	MW-04	7-12	1231		Water						
5	MW-07	7-12	1026		Water						
6	MW-08	7-12	1142		Water						
7	MW-13	7-12	<del>1155</del> 1209		Water						
8	MW-14	7-12	1055		Water						
9	MW-15	7-12	1004		Water						
10	Duplicate	7-12	-		Water			✓	✓	✓	
<b>Possible Hazard Identification</b>						<b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b>					
<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 7/12/21 for all sample dates					
Empty Kit Relinquished by				Date		Time		Method of Shipment:			
Relinquished by		Date/Time		Company		Received by		Date/Time		Company	
<i>GR</i>		7-12		KPRG		<i>Anton</i>		7-13-21 1400		TA	
<i>Anton</i>		7-13-21 1700		TA		<i>Stephanie Hemondy</i>		7-14-21 1005		ETA-CH	
Relinquished by		Date/Time		Company		Received by		Date/Time		Company	
Custody Seals Intact.		Custody Seal No		Cooler Temperature(s) °C and Other Remarks							
<input type="checkbox"/> Yes <input type="checkbox"/> No						-0.4, 0.3, 0.5					



500-202252 Wayb

ORIGIN ID:RRLA 262) 202-5955  
SHIPPING  
TESTAMERICA  
4125 N 124TH ST  
BROOKFIELD, WI 53005  
UNITED STATES US

SHIP DATE: 13JUL21  
ACTWGT: 67.15 LB  
CAD: 525155/CAFE3406

BILL RECIPIENT

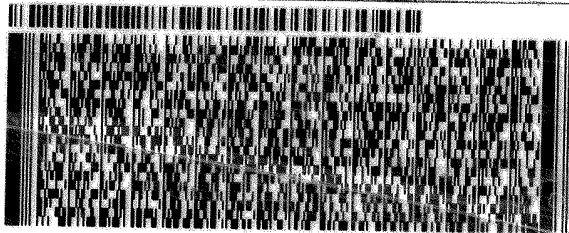
TO **SAMPLE RECEIPT  
TESTAMERICA LABS  
2417 BOND STREET**

**UNIVERSITY PARK IL 60484**

(708) 634-6200  
INV:  
PO:

REF:

DEPT:



2 of 3

MPS# 7125 4944 8595  
0269

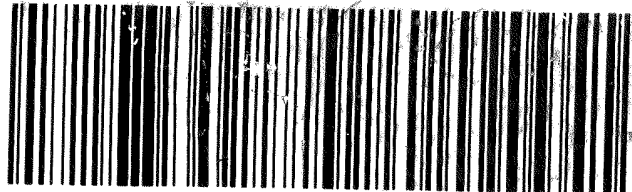
Mstr# 7125 4944 8584

0201

**79 JOTA**

**WED - 14 JUL 10:30A  
PRIORITY OVERNIGHT**

**60484  
IL-US ORD**



OR (262) 202-5955  
SH: 4125  
TES: ST

SH.P DATE: 13JUL21  
ACTWGT: 64.75 LB  
CAD: 525155/CAFE3406

BROOKFIELD, WI 53005  
UNITED STATES US

BILL RECIPIENT

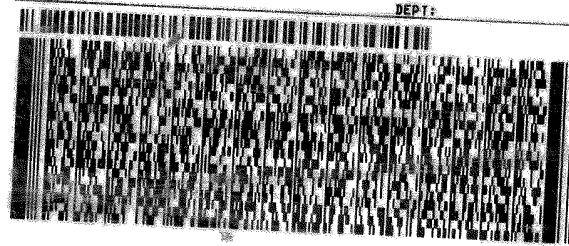
TO **SAMPLE RECEIPT  
TESTAMERICA LABS  
2417 BOND STREET**

**UNIVERSITY PARK IL 60484**

(708) 634-6200  
INV:  
PO:

REF:

DEPT:



1 of 3

TRK# 7125 4944 8584  
ORD#

## MASTER ##

**79 JOTA**

**WED - 14 JUL 10:30A  
PRIORITY OVERNIGHT**

60484





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- 2
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- 9
- 10
- 11
- 12
- 13

ORIGIN ID:RRLA (262) 202-5955  
 SHIPPING  
 TESTAMERICA  
 4125 N 124TH ST

SHIP DATE: 13JUL21  
 ACTWGT: 61.75 LB  
 CAD: 525155/CAFE3406

BROOKFIELD, WI 53005  
 UNITED STATES US

BILL RECIPIENT

TO **SAMPLE RECEIPT**  
**TESTAMERICA LABS**  
**2417 BOND STREET**

58112/0PAC/054P

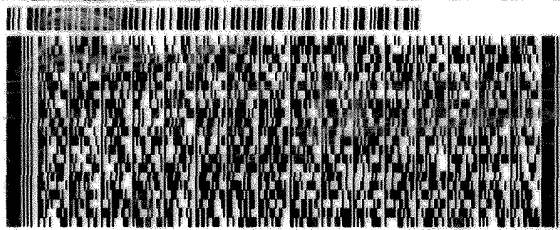
**UNIVERSITY PARK IL 60484**

(708) 584-5200

REF:

TRK:

DEPT:



**FedEx**  
Express



3 of 3

MPS# 7125 4944 8600  
 0263

Mstr# 7125 4944 8584

0201

**WED - 14 JUL 10:30**  
**PRIORITY OVERNIGHT**

**79 JOTA**

**6048**  
 IL-US OF





# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-202252-2

**Login Number: 202252**

**List Source: Eurofins TestAmerica, Chicago**

**List Number: 1**

**Creator: Hernandez, Stephanie**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.4,0.3,0.5 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-202252-2

**Login Number: 202252**

**List Number: 2**

**Creator: Korrinhizer, Micha L**

**List Source: Eurofins TestAmerica, St. Louis**

**List Creation: 07/15/21 08:07 PM**

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



# Lab Chronicle

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

Job ID: 500-202252-2

## Client Sample ID: MW-01

Date Collected: 07/12/21 09:36

Date Received: 07/14/21 10:05

## Lab Sample ID: 500-202252-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519532	07/21/21 13:11	MJ	TAL SL
Total/NA	Analysis	903.0		1	522459	08/12/21 07:05	ANW	TAL SL
Total/NA	Prep	PrecSep_0			519626	07/21/21 14:26	MJ	TAL SL
Total/NA	Analysis	904.0		1	520351	07/27/21 09:23	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	522661	08/13/21 14:41	SCB	TAL SL

## Client Sample ID: MW-02

Date Collected: 07/12/21 11:19

Date Received: 07/14/21 10:05

## Lab Sample ID: 500-202252-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519532	07/21/21 13:11	MJ	TAL SL
Total/NA	Analysis	903.0		1	522459	08/12/21 07:05	ANW	TAL SL
Total/NA	Prep	PrecSep_0			519626	07/21/21 14:26	MJ	TAL SL
Total/NA	Analysis	904.0		1	520324	07/27/21 09:27	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	522661	08/13/21 14:41	SCB	TAL SL

## Client Sample ID: MW-03

Date Collected: 07/12/21 12:53

Date Received: 07/14/21 10:05

## Lab Sample ID: 500-202252-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519532	07/21/21 13:11	MJ	TAL SL
Total/NA	Analysis	903.0		1	522459	08/12/21 07:05	ANW	TAL SL
Total/NA	Prep	PrecSep_0			519626	07/21/21 14:26	MJ	TAL SL
Total/NA	Analysis	904.0		1	520324	07/27/21 09:27	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	522661	08/13/21 14:41	SCB	TAL SL

## Client Sample ID: MW-04

Date Collected: 07/12/21 12:31

Date Received: 07/14/21 10:05

## Lab Sample ID: 500-202252-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519532	07/21/21 13:11	MJ	TAL SL
Total/NA	Analysis	903.0		1	522459	08/12/21 07:05	ANW	TAL SL
Total/NA	Prep	PrecSep_0			519626	07/21/21 14:26	MJ	TAL SL
Total/NA	Analysis	904.0		1	520324	07/27/21 09:28	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	522661	08/13/21 14:41	SCB	TAL SL

# Lab Chronicle

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

Job ID: 500-202252-2

**Client Sample ID: MW-07**  
**Date Collected: 07/12/21 10:26**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-5**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519532	07/21/21 13:11	MJ	TAL SL
Total/NA	Analysis	903.0		1	522459	08/12/21 07:05	ANW	TAL SL
Total/NA	Prep	PrecSep_0			519626	07/21/21 14:26	MJ	TAL SL
Total/NA	Analysis	904.0		1	520324	07/27/21 09:28	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	522661	08/13/21 14:41	SCB	TAL SL

**Client Sample ID: MW-08**  
**Date Collected: 07/12/21 11:42**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-6**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519532	07/21/21 13:11	MJ	TAL SL
Total/NA	Analysis	903.0		1	522459	08/12/21 07:05	ANW	TAL SL
Total/NA	Prep	PrecSep_0			519626	07/21/21 14:26	MJ	TAL SL
Total/NA	Analysis	904.0		1	520324	07/27/21 09:28	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	522661	08/13/21 14:41	SCB	TAL SL

**Client Sample ID: MW-13**  
**Date Collected: 07/12/21 12:09**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-7**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519532	07/21/21 13:11	MJ	TAL SL
Total/NA	Analysis	903.0		1	522459	08/12/21 07:05	ANW	TAL SL
Total/NA	Prep	PrecSep_0			519626	07/21/21 14:26	MJ	TAL SL
Total/NA	Analysis	904.0		1	520324	07/27/21 09:29	SCB	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	522661	08/13/21 14:41	SCB	TAL SL

**Client Sample ID: MW-14**  
**Date Collected: 07/12/21 10:55**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-8**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519887	07/23/21 10:18	MJ	TAL SL
Total/NA	Analysis	903.0		1	522821	08/16/21 12:25	SCB	TAL SL
Total/NA	Prep	PrecSep_0			519991	07/23/21 11:18	MJ	TAL SL
Total/NA	Analysis	904.0		1	520441	07/29/21 09:03	ANW	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523036	08/17/21 22:33	MLK	TAL SL

# Lab Chronicle

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

Job ID: 500-202252-2

**Client Sample ID: MW-15**  
**Date Collected: 07/12/21 10:04**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-9**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519887	07/23/21 10:18	MJ	TAL SL
Total/NA	Analysis	903.0		1	522821	08/16/21 12:25	SCB	TAL SL
Total/NA	Prep	PrecSep_0			519991	07/23/21 11:18	MJ	TAL SL
Total/NA	Analysis	904.0		1	520679	07/29/21 09:05	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523036	08/17/21 22:33	MLK	TAL SL

**Client Sample ID: Duplicate**  
**Date Collected: 07/12/21 00:00**  
**Date Received: 07/14/21 10:05**

**Lab Sample ID: 500-202252-10**  
**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PrecSep-21			519887	07/23/21 10:18	MJ	TAL SL
Total/NA	Analysis	903.0		1	522821	08/16/21 12:26	SCB	TAL SL
Total/NA	Prep	PrecSep_0			519991	07/23/21 11:18	MJ	TAL SL
Total/NA	Analysis	904.0		1	520679	07/29/21 09:05	CMM	TAL SL
Total/NA	Analysis	Ra226_Ra228		1	523036	08/17/21 22:33	MLK	TAL SL

**Laboratory References:**

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





# Tracer/Carrier Summary

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

Job ID: 500-202252-2

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	
500-202252-1	MW-01	87.7	
500-202252-1 DU	MW-01	93.2	
500-202252-2	MW-02	81.3	
500-202252-3	MW-03	83.7	
500-202252-4	MW-04	86.4	
500-202252-5	MW-07	87.7	
500-202252-6	MW-08	84.0	
500-202252-7	MW-13	87.5	
500-202252-8	MW-14	88.8	
500-202252-9	MW-15	91.2	
500-202252-10	Duplicate	96.5	
LCS 160-519532/1-A	Lab Control Sample	86.8	
LCS 160-519887/1-A	Lab Control Sample	91.6	
MB 160-519532/23-A	Method Blank	87.3	
MB 160-519887/22-A	Method Blank	94.9	
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			

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

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (40-110)	Y (40-110)
500-202252-1	MW-01	87.7	84.2
500-202252-1 DU	MW-01	93.2	86.9
500-202252-2	MW-02	81.3	88.4
500-202252-3	MW-03	83.7	86.3
500-202252-4	MW-04	86.4	89.3
500-202252-5	MW-07	87.7	83.6
500-202252-6	MW-08	84.0	85.7
500-202252-7	MW-13	87.5	81.5
500-202252-8	MW-14	88.8	89.6
500-202252-9	MW-15	91.2	92.9
500-202252-10	Duplicate	96.5	94.9
LCS 160-519626/1-A	Lab Control Sample	86.8	82.4
LCS 160-519991/1-A	Lab Control Sample	91.6	91.4
MB 160-519626/23-A	Method Blank	87.3	83.6
MB 160-519991/22-A	Method Blank	94.9	93.8
<b>Tracer/Carrier Legend</b>			
Ba = Ba Carrier			
Y = Y Carrier			