

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-119618-1  
Client Project/Site: Joliet #29 CCR

For:  
KPRG and Associates, Inc.  
14665 West Lisbon Road,  
Suite 2B  
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:  
11/15/2016 2:15:53 PM  
Therese Hargraves, Project Manager I  
[therese.hargraves@testamericainc.com](mailto:therese.hargraves@testamericainc.com)

Designee for  
Eric Lang, Manager of Project Management  
(708)534-5200  
[eric.lang@testamericainc.com](mailto:eric.lang@testamericainc.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.*

MWG13-15\_59021

COMP. Ex. 206G



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## Case Narrative

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

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**Job ID: 500-119618-1**

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**Laboratory: TestAmerica Chicago**

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**Narrative**

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**Job Narrative**  
**500-119618-1**

### Comments

No additional comments.

### Receipt

The samples were received on 11/4/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 1.1° C.

### Metals

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

### General Chemistry

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

# Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

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

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

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# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-119618-1	MW-03	Water	11/02/16 15:30	11/04/16 09:40
500-119618-2	MW-04	Water	11/02/16 14:44	11/04/16 09:40
500-119618-3	MW-05	Water	11/02/16 09:55	11/04/16 09:40
500-119618-4	MW-10	Water	11/02/16 11:00	11/04/16 09:40
500-119618-5	Dup	Water	11/02/16 00:00	11/04/16 09:40

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MWG13-15\_59025  
11/15/2016

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

**Client Sample ID: MW-03**

**Lab Sample ID: 500-119618-1**

Date Collected: 11/02/16 15:30

Matrix: Water

Date Received: 11/04/16 09:40

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		11/05/16 09:36	11/06/16 18:07	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		11/05/16 09:36	11/08/16 13:56	1
<b>Arsenic</b>	<b>0.0019</b>		0.0010		mg/L		11/05/16 09:36	11/07/16 15:53	1
<b>Barium</b>	<b>0.082</b>		0.0025		mg/L		11/05/16 09:36	11/08/16 13:56	1
Beryllium	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 13:56	1
<b>Boron</b>	<b>0.34</b>		0.050		mg/L		11/05/16 09:36	11/08/16 13:56	1
Cadmium	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 13:56	1
<b>Calcium</b>	<b>87</b>		0.20		mg/L		11/05/16 09:36	11/08/16 13:56	1
<b>Chromium</b>	<b>0.0051</b>		0.0050		mg/L		11/05/16 09:36	11/08/16 13:56	1
Cobalt	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 13:56	1
Lead	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 13:56	1
<b>Molybdenum</b>	<b>0.0059</b>		0.0050		mg/L		11/05/16 09:36	11/08/16 13:56	1
<b>Selenium</b>	<b>0.0032</b>		0.0025		mg/L		11/05/16 09:36	11/07/16 15:53	1
Thallium	<0.0020		0.0020		mg/L		11/05/16 09:36	11/08/16 13:56	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/08/16 12:15	11/09/16 11:28	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total Dissolved Solids</b>	<b>780</b>		10		mg/L			11/05/16 20:45	1
<b>Chloride</b>	<b>190</b>		10		mg/L			11/12/16 00:10	5
<b>Fluoride</b>	<b>0.44</b>		0.10		mg/L			11/11/16 14:19	1
<b>Sulfate</b>	<b>94</b>		20		mg/L			11/07/16 06:28	4

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

**Client Sample ID: MW-04**  
Date Collected: 11/02/16 14:44  
Date Received: 11/04/16 09:40

**Lab Sample ID: 500-119618-2**  
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.010		mg/L		11/05/16 09:36	11/06/16 18:26	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		11/05/16 09:36	11/08/16 14:20	1
Arsenic	0.0025		0.0010		mg/L		11/05/16 09:36	11/07/16 16:20	1
Barium	0.079		0.0025		mg/L		11/05/16 09:36	11/08/16 14:20	1
Beryllium	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 14:20	1
Boron	0.32		0.050		mg/L		11/05/16 09:36	11/08/16 14:20	1
Cadmium	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 14:20	1
Calcium	98		0.20		mg/L		11/05/16 09:36	11/08/16 14:20	1
Chromium	<0.0050		0.0050		mg/L		11/05/16 09:36	11/08/16 14:20	1
Cobalt	0.010		0.0010		mg/L		11/05/16 09:36	11/08/16 14:20	1
Lead	0.0012		0.00050		mg/L		11/05/16 09:36	11/08/16 14:20	1
Molybdenum	0.0070		0.0050		mg/L		11/05/16 09:36	11/08/16 14:20	1
Selenium	<0.0025		0.0025		mg/L		11/05/16 09:36	11/07/16 16:20	1
Thallium	<0.0020		0.0020		mg/L		11/05/16 09:36	11/08/16 14:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/08/16 12:15	11/09/16 11:29	1

### General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	750		10		mg/L			11/05/16 20:49	1
Chloride	160		10		mg/L			11/12/16 00:10	5
Fluoride	0.43		0.10		mg/L			11/11/16 14:29	1
Sulfate	83		20		mg/L			11/07/16 06:29	4

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# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

**Client Sample ID: MW-05**

**Lab Sample ID: 500-119618-3**

Date Collected: 11/02/16 09:55

Matrix: Water

Date Received: 11/04/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.015		0.010		mg/L		11/05/16 09:36	11/06/16 18:29	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		11/05/16 09:36	11/08/16 14:25	1
Arsenic	0.0022		0.0010		mg/L		11/05/16 09:36	11/07/16 16:24	1
Barium	0.056		0.0025		mg/L		11/05/16 09:36	11/08/16 14:25	1
Beryllium	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 14:25	1
Boron	0.41		0.050		mg/L		11/05/16 09:36	11/08/16 14:25	1
Cadmium	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 14:25	1
Calcium	98		0.20		mg/L		11/05/16 09:36	11/08/16 14:25	1
Chromium	0.0051		0.0050		mg/L		11/05/16 09:36	11/08/16 14:25	1
Cobalt	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 14:25	1
Lead	0.0017		0.00050		mg/L		11/05/16 09:36	11/08/16 14:25	1
Molybdenum	0.0061		0.0050		mg/L		11/05/16 09:36	11/08/16 14:25	1
Selenium	<0.0025		0.0025		mg/L		11/05/16 09:36	11/07/16 16:24	1
Thallium	<0.0020		0.0020		mg/L		11/05/16 09:36	11/08/16 14:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/08/16 12:15	11/09/16 11:31	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	700		10		mg/L			11/05/16 20:54	1
Chloride	130		10		mg/L			11/12/16 00:11	5
Fluoride	0.37		0.10		mg/L			11/11/16 14:32	1
Sulfate	100		25		mg/L			11/07/16 06:30	5



# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

**Client Sample ID: MW-10**

**Lab Sample ID: 500-119618-4**

Date Collected: 11/02/16 11:00

Matrix: Water

Date Received: 11/04/16 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.011		0.010		mg/L		11/05/16 09:36	11/06/16 18:33	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		11/05/16 09:36	11/08/16 14:29	1
Arsenic	0.0018		0.0010		mg/L		11/05/16 09:36	11/07/16 16:27	1
Barium	0.035		0.0025		mg/L		11/05/16 09:36	11/08/16 14:29	1
Beryllium	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 14:29	1
Boron	0.48		0.050		mg/L		11/05/16 09:36	11/08/16 14:29	1
Cadmium	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 14:29	1
Calcium	100		0.20		mg/L		11/05/16 09:36	11/08/16 14:29	1
Chromium	<0.0050		0.0050		mg/L		11/05/16 09:36	11/08/16 14:29	1
Cobalt	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 14:29	1
Lead	0.0014		0.00050		mg/L		11/05/16 09:36	11/08/16 14:29	1
Molybdenum	0.0061		0.0050		mg/L		11/05/16 09:36	11/08/16 14:29	1
Selenium	<0.0025		0.0025		mg/L		11/05/16 09:36	11/07/16 16:27	1
Thallium	<0.0020		0.0020		mg/L		11/05/16 09:36	11/08/16 14:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/08/16 12:15	11/09/16 11:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	720		10		mg/L			11/07/16 01:19	1
Chloride	130		10		mg/L			11/12/16 00:11	5
Fluoride	0.45		0.10		mg/L			11/11/16 14:47	1
Sulfate	95		20		mg/L			11/07/16 06:31	4

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# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

**Client Sample ID: Dup**

**Lab Sample ID: 500-119618-5**

Date Collected: 11/02/16 00:00

Matrix: Water

Date Received: 11/04/16 09:40

<b>Method: 6010C - Metals (ICP) - Total Recoverable</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lithium	<0.010		0.010		mg/L		11/05/16 09:36	11/06/16 18:44	1	

<b>Method: 6020A - Metals (ICP/MS) - Total Recoverable</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Antimony	<0.0030		0.0030		mg/L		11/05/16 09:36	11/08/16 14:34	1	
<b>Arsenic</b>	<b>0.0020</b>		0.0010		mg/L		11/05/16 09:36	11/07/16 16:31	1	
<b>Barium</b>	<b>0.085</b>		0.0025		mg/L		11/05/16 09:36	11/08/16 14:34	1	
Beryllium	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 14:34	1	
<b>Boron</b>	<b>0.35</b>		0.050		mg/L		11/05/16 09:36	11/08/16 14:34	1	
Cadmium	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 14:34	1	
<b>Calcium</b>	<b>86</b>		0.20		mg/L		11/05/16 09:36	11/08/16 14:34	1	
<b>Chromium</b>	<b>0.0071</b>		0.0050		mg/L		11/05/16 09:36	11/08/16 14:34	1	
Cobalt	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 14:34	1	
Lead	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 14:34	1	
<b>Molybdenum</b>	<b>0.0059</b>		0.0050		mg/L		11/05/16 09:36	11/08/16 14:34	1	
<b>Selenium</b>	<b>0.0033</b>		0.0025		mg/L		11/05/16 09:36	11/07/16 16:31	1	
Thallium	<0.0020		0.0020		mg/L		11/05/16 09:36	11/08/16 14:34	1	

<b>Method: 7470A - Mercury (CVAA)</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	<0.00020		0.00020		mg/L		11/08/16 12:15	11/09/16 11:34	1	

<b>General Chemistry</b>										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
<b>Total Dissolved Solids</b>	<b>780</b>		10		mg/L			11/07/16 01:23	1	
<b>Chloride</b>	<b>180</b>		10		mg/L			11/12/16 00:12	5	
<b>Fluoride</b>	<b>0.46</b>		0.10		mg/L			11/11/16 14:50	1	
<b>Sulfate</b>	<b>100</b>		20		mg/L			11/10/16 08:23	4	

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## Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

### Qualifiers

#### Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
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)

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# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

## Metals

### Prep Batch: 359444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total Recoverable	Water	3005A	
500-119618-2	MW-04	Total Recoverable	Water	3005A	
500-119618-3	MW-05	Total Recoverable	Water	3005A	
500-119618-4	MW-10	Total Recoverable	Water	3005A	
500-119618-5	Dup	Total Recoverable	Water	3005A	
MB 500-359444/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-359444/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-119618-1 MS	MW-03	Total Recoverable	Water	3005A	
500-119618-1 MSD	MW-03	Total Recoverable	Water	3005A	
500-119618-1 DU	MW-03	Total Recoverable	Water	3005A	

### Analysis Batch: 359565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total Recoverable	Water	6010C	359444
500-119618-2	MW-04	Total Recoverable	Water	6010C	359444
500-119618-3	MW-05	Total Recoverable	Water	6010C	359444
500-119618-4	MW-10	Total Recoverable	Water	6010C	359444
500-119618-5	Dup	Total Recoverable	Water	6010C	359444
MB 500-359444/1-A	Method Blank	Total Recoverable	Water	6010C	359444
LCS 500-359444/2-A	Lab Control Sample	Total Recoverable	Water	6010C	359444
500-119618-1 MS	MW-03	Total Recoverable	Water	6010C	359444
500-119618-1 MSD	MW-03	Total Recoverable	Water	6010C	359444
500-119618-1 DU	MW-03	Total Recoverable	Water	6010C	359444

### Analysis Batch: 359727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total Recoverable	Water	6020A	359444
500-119618-2	MW-04	Total Recoverable	Water	6020A	359444
500-119618-3	MW-05	Total Recoverable	Water	6020A	359444
500-119618-4	MW-10	Total Recoverable	Water	6020A	359444
500-119618-5	Dup	Total Recoverable	Water	6020A	359444
MB 500-359444/1-A	Method Blank	Total Recoverable	Water	6020A	359444
LCS 500-359444/2-A	Lab Control Sample	Total Recoverable	Water	6020A	359444
500-119618-1 MS	MW-03	Total Recoverable	Water	6020A	359444
500-119618-1 MSD	MW-03	Total Recoverable	Water	6020A	359444
500-119618-1 DU	MW-03	Total Recoverable	Water	6020A	359444

### Prep Batch: 359777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total/NA	Water	7470A	
500-119618-2	MW-04	Total/NA	Water	7470A	
500-119618-3	MW-05	Total/NA	Water	7470A	
500-119618-4	MW-10	Total/NA	Water	7470A	
500-119618-5	Dup	Total/NA	Water	7470A	
MB 500-359777/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-359777/13-A	Lab Control Sample	Total/NA	Water	7470A	

### Analysis Batch: 359816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total Recoverable	Water	6020A	359444
500-119618-2	MW-04	Total Recoverable	Water	6020A	359444

TestAmerica Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

## Metals (Continued)

### Analysis Batch: 359816 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-3	MW-05	Total Recoverable	Water	6020A	359444
500-119618-4	MW-10	Total Recoverable	Water	6020A	359444
500-119618-5	Dup	Total Recoverable	Water	6020A	359444
MB 500-359444/1-A	Method Blank	Total Recoverable	Water	6020A	359444
LCS 500-359444/2-A	Lab Control Sample	Total Recoverable	Water	6020A	359444
500-119618-1 MS	MW-03	Total Recoverable	Water	6020A	359444
500-119618-1 MSD	MW-03	Total Recoverable	Water	6020A	359444
500-119618-1 DU	MW-03	Total Recoverable	Water	6020A	359444

### Analysis Batch: 360028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total/NA	Water	7470A	359777
500-119618-2	MW-04	Total/NA	Water	7470A	359777
500-119618-3	MW-05	Total/NA	Water	7470A	359777
500-119618-4	MW-10	Total/NA	Water	7470A	359777
500-119618-5	Dup	Total/NA	Water	7470A	359777
MB 500-359777/12-A	Method Blank	Total/NA	Water	7470A	359777
LCS 500-359777/13-A	Lab Control Sample	Total/NA	Water	7470A	359777

## General Chemistry

### Analysis Batch: 359470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total/NA	Water	SM 2540C	
500-119618-2	MW-04	Total/NA	Water	SM 2540C	
500-119618-3	MW-05	Total/NA	Water	SM 2540C	
MB 500-359470/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-359470/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 359525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-4	MW-10	Total/NA	Water	SM 2540C	
500-119618-5	Dup	Total/NA	Water	SM 2540C	
MB 500-359525/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-359525/2	Lab Control Sample	Total/NA	Water	SM 2540C	

### Analysis Batch: 359576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total/NA	Water	SM 4500 SO4 E	
500-119618-2	MW-04	Total/NA	Water	SM 4500 SO4 E	
500-119618-3	MW-05	Total/NA	Water	SM 4500 SO4 E	
500-119618-4	MW-10	Total/NA	Water	SM 4500 SO4 E	
MB 500-359576/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-359576/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

### Analysis Batch: 360173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-5	Dup	Total/NA	Water	SM 4500 SO4 E	
MB 500-360173/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-360173/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
 Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

## General Chemistry (Continued)

### Analysis Batch: 360497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total/NA	Water	SM 4500 F C	
500-119618-2	MW-04	Total/NA	Water	SM 4500 F C	
500-119618-3	MW-05	Total/NA	Water	SM 4500 F C	
500-119618-4	MW-10	Total/NA	Water	SM 4500 F C	
500-119618-5	Dup	Total/NA	Water	SM 4500 F C	
MB 500-360497/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-360497/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-360497/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-360497/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-119618-3 MS	MW-05	Total/NA	Water	SM 4500 F C	
500-119618-3 MSD	MW-05	Total/NA	Water	SM 4500 F C	
500-119618-5 MS	Dup	Total/NA	Water	SM 4500 F C	
500-119618-5 MSD	Dup	Total/NA	Water	SM 4500 F C	

### Analysis Batch: 360527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-119618-1	MW-03	Total/NA	Water	SM 4500 CI- E	
500-119618-2	MW-04	Total/NA	Water	SM 4500 CI- E	
500-119618-3	MW-05	Total/NA	Water	SM 4500 CI- E	
500-119618-4	MW-10	Total/NA	Water	SM 4500 CI- E	
500-119618-5	Dup	Total/NA	Water	SM 4500 CI- E	
MB 500-360527/12	Method Blank	Total/NA	Water	SM 4500 CI- E	
LCS 500-360527/13	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

## Method: 6010C - Metals (ICP)

<b>Lab Sample ID: MB 500-359444/1-A</b>						<b>Client Sample ID: Method Blank</b>				
<b>Matrix: Water</b>						<b>Prep Type: Total Recoverable</b>				
<b>Analysis Batch: 359565</b>						<b>Prep Batch: 359444</b>				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lithium	<0.010		0.010		mg/L		11/05/16 09:36	11/06/16 17:59	1	

<b>Lab Sample ID: LCS 500-359444/2-A</b>						<b>Client Sample ID: Lab Control Sample</b>				
<b>Matrix: Water</b>						<b>Prep Type: Total Recoverable</b>				
<b>Analysis Batch: 359565</b>						<b>Prep Batch: 359444</b>				
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits			
Lithium	0.500	0.512		mg/L		102	80 - 120			

<b>Lab Sample ID: 500-119618-1 MS</b>						<b>Client Sample ID: MW-03</b>				
<b>Matrix: Water</b>						<b>Prep Type: Total Recoverable</b>				
<b>Analysis Batch: 359565</b>						<b>Prep Batch: 359444</b>				
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	
Lithium	<0.010		0.500	0.528		mg/L		104	75 - 125	

<b>Lab Sample ID: 500-119618-1 MSD</b>						<b>Client Sample ID: MW-03</b>					
<b>Matrix: Water</b>						<b>Prep Type: Total Recoverable</b>					
<b>Analysis Batch: 359565</b>						<b>Prep Batch: 359444</b>					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lithium	<0.010		0.500	0.555		mg/L		109	75 - 125	5	20

<b>Lab Sample ID: 500-119618-1 DU</b>						<b>Client Sample ID: MW-03</b>				
<b>Matrix: Water</b>						<b>Prep Type: Total Recoverable</b>				
<b>Analysis Batch: 359565</b>						<b>Prep Batch: 359444</b>				
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit		
Lithium	<0.010		<0.010		mg/L		NC	20		

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

<b>Lab Sample ID: MB 500-359444/1-A</b>						<b>Client Sample ID: Method Blank</b>				
<b>Matrix: Water</b>						<b>Prep Type: Total Recoverable</b>				
<b>Analysis Batch: 359727</b>						<b>Prep Batch: 359444</b>				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	<0.0010		0.0010		mg/L		11/05/16 09:36	11/07/16 15:46	1	
Selenium	<0.0025		0.0025		mg/L		11/05/16 09:36	11/07/16 15:46	1	

<b>Lab Sample ID: MB 500-359444/1-A</b>						<b>Client Sample ID: Method Blank</b>				
<b>Matrix: Water</b>						<b>Prep Type: Total Recoverable</b>				
<b>Analysis Batch: 359816</b>						<b>Prep Batch: 359444</b>				
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Antimony	<0.0030		0.0030		mg/L		11/05/16 09:36	11/08/16 13:28	1	
Barium	<0.0025		0.0025		mg/L		11/05/16 09:36	11/08/16 13:28	1	
Beryllium	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 13:28	1	
Boron	<0.050		0.050		mg/L		11/05/16 09:36	11/08/16 13:28	1	

TestAmerica Chicago

MWG13-15\_59035  
11/15/2016

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

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

**Lab Sample ID: MB 500-359444/1-A**  
**Matrix: Water**  
**Analysis Batch: 359816**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 359444**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 13:28	1
Calcium	<0.20		0.20		mg/L		11/05/16 09:36	11/08/16 13:28	1
Chromium	<0.0050		0.0050		mg/L		11/05/16 09:36	11/08/16 13:28	1
Cobalt	<0.0010		0.0010		mg/L		11/05/16 09:36	11/08/16 13:28	1
Lead	<0.00050		0.00050		mg/L		11/05/16 09:36	11/08/16 13:28	1
Molybdenum	<0.0050		0.0050		mg/L		11/05/16 09:36	11/08/16 13:28	1
Thallium	<0.0020		0.0020		mg/L		11/05/16 09:36	11/08/16 13:28	1

**Lab Sample ID: LCS 500-359444/2-A**  
**Matrix: Water**  
**Analysis Batch: 359727**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 359444**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120

**Lab Sample ID: LCS 500-359444/2-A**  
**Matrix: Water**  
**Analysis Batch: 359816**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 359444**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	0.500	0.498		mg/L		100	80 - 120
Barium	2.00	1.95		mg/L		97	80 - 120
Beryllium	0.0500	0.0501		mg/L		100	80 - 120
Boron	1.00	1.01		mg/L		101	80 - 120
Cadmium	0.0500	0.0479		mg/L		96	80 - 120
Calcium	10.0	10.7		mg/L		107	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.497		mg/L		99	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	0.973		mg/L		97	80 - 120
Thallium	0.100	0.110		mg/L		110	80 - 120

**Lab Sample ID: 500-119618-1 MS**  
**Matrix: Water**  
**Analysis Batch: 359727**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 359444**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0019		0.100	0.114		mg/L		112	75 - 125
Selenium	0.0032		0.100	0.108		mg/L		105	75 - 125

**Lab Sample ID: 500-119618-1 MS**  
**Matrix: Water**  
**Analysis Batch: 359816**

**Client Sample ID: MW-03**  
**Prep Type: Total Recoverable**  
**Prep Batch: 359444**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Antimony	<0.0030		0.500	0.499		mg/L		100	75 - 125
Barium	0.082		2.00	2.03		mg/L		97	75 - 125
Beryllium	<0.0010		0.0500	0.0503		mg/L		101	75 - 125

TestAmerica Chicago

MWG13-15\_59036

11/15/2016



# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

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

**Lab Sample ID: 500-119618-1 MS**

**Matrix: Water**

**Analysis Batch: 359816**

**Client Sample ID: MW-03**

**Prep Type: Total Recoverable**

**Prep Batch: 359444**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	
	Result	Qualifier	Added	Result	Qualifier				%Rec.	
Boron	0.34		1.00	1.38		mg/L		104	75 - 125	
Cadmium	<0.00050		0.0500	0.0468		mg/L		94	75 - 125	
Calcium	87		10.0	101	4	mg/L		136	75 - 125	
Chromium	0.0051		0.200	0.199		mg/L		97	75 - 125	
Cobalt	<0.0010		0.500	0.476		mg/L		95	75 - 125	
Lead	<0.00050		0.100	0.102		mg/L		101	75 - 125	
Molybdenum	0.0059		1.00	0.967		mg/L		96	75 - 125	
Thallium	<0.0020		0.100	0.105		mg/L		105	75 - 125	

**Lab Sample ID: 500-119618-1 MSD**

**Matrix: Water**

**Analysis Batch: 359727**

**Client Sample ID: MW-03**

**Prep Type: Total Recoverable**

**Prep Batch: 359444**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				%Rec.	RPD	Limit	
Arsenic	0.0019		0.100	0.120		mg/L		118	75 - 125	6	20	
Selenium	0.0032		0.100	0.115		mg/L		112	75 - 125	6	20	

**Lab Sample ID: 500-119618-1 MSD**

**Matrix: Water**

**Analysis Batch: 359816**

**Client Sample ID: MW-03**

**Prep Type: Total Recoverable**

**Prep Batch: 359444**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				%Rec.	RPD	Limit	
Antimony	<0.0030		0.500	0.514		mg/L		103	75 - 125	3	20	
Barium	0.082		2.00	2.11		mg/L		101	75 - 125	4	20	
Beryllium	<0.0010		0.0500	0.0526		mg/L		105	75 - 125	4	20	
Boron	0.34		1.00	1.45		mg/L		111	75 - 125	5	20	
Cadmium	<0.00050		0.0500	0.0481		mg/L		96	75 - 125	3	20	
Calcium	87		10.0	103	4	mg/L		158	75 - 125	2	20	
Chromium	0.0051		0.200	0.208		mg/L		101	75 - 125	4	20	
Cobalt	<0.0010		0.500	0.501		mg/L		100	75 - 125	5	20	
Lead	<0.00050		0.100	0.105		mg/L		105	75 - 125	3	20	
Molybdenum	0.0059		1.00	1.01		mg/L		100	75 - 125	4	20	
Thallium	<0.0020		0.100	0.109		mg/L		109	75 - 125	4	20	

**Lab Sample ID: 500-119618-1 DU**

**Matrix: Water**

**Analysis Batch: 359727**

**Client Sample ID: MW-03**

**Prep Type: Total Recoverable**

**Prep Batch: 359444**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.0019		0.00192		mg/L		2	20
Selenium	0.0032		0.00313		mg/L		1	20

**Lab Sample ID: 500-119618-1 DU**

**Matrix: Water**

**Analysis Batch: 359816**

**Client Sample ID: MW-03**

**Prep Type: Total Recoverable**

**Prep Batch: 359444**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Barium	0.082		0.0856		mg/L		4	20

TestAmerica Chicago

MWG13-15\_59037

11/15/2016

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

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

Lab Sample ID: 500-119618-1 DU  
Matrix: Water  
Analysis Batch: 359816

Client Sample ID: MW-03  
Prep Type: Total Recoverable  
Prep Batch: 359444

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.34		0.351		mg/L		3	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	87		88.8		mg/L		2	20
Chromium	0.0051		0.00533		mg/L		4	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.0059		0.00616		mg/L		5	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

## Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-359777/12-A  
Matrix: Water  
Analysis Batch: 360028

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 359777

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		11/08/16 12:15	11/09/16 11:20	1

Lab Sample ID: LCS 500-359777/13-A  
Matrix: Water  
Analysis Batch: 360028

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 359777

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Mercury	0.00200	0.00187		mg/L		93	80 - 120

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

Lab Sample ID: MB 500-359470/1  
Matrix: Water  
Analysis Batch: 359470

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10		mg/L			11/05/16 19:07	1

Lab Sample ID: LCS 500-359470/2  
Matrix: Water  
Analysis Batch: 359470

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Total Dissolved Solids	250	268		mg/L		107	80 - 120

Lab Sample ID: MB 500-359525/1  
Matrix: Water  
Analysis Batch: 359525

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10		10		mg/L			11/07/16 00:15	1

TestAmerica Chicago

MWG13-15\_59038

11/15/2016

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

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

Lab Sample ID: LCS 500-359525/2  
Matrix: Water  
Analysis Batch: 359525

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	250	278		mg/L		111	80 - 120

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

Lab Sample ID: MB 500-360527/12  
Matrix: Water  
Analysis Batch: 360527

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			11/11/16 23:31	1

Lab Sample ID: LCS 500-360527/13  
Matrix: Water  
Analysis Batch: 360527

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.3		mg/L		101	80 - 120

## Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-360497/3  
Matrix: Water  
Analysis Batch: 360497

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/11/16 13:13	1

Lab Sample ID: MB 500-360497/31  
Matrix: Water  
Analysis Batch: 360497

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/11/16 14:41	1

Lab Sample ID: LCS 500-360497/32  
Matrix: Water  
Analysis Batch: 360497

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	10.5		mg/L		105	80 - 120

Lab Sample ID: LCS 500-360497/4  
Matrix: Water  
Analysis Batch: 360497

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	10.3		mg/L		103	80 - 120

TestAmerica Chicago

MWG13-15\_59039

11/15/2016

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

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

Lab Sample ID: 500-119618-3 MS Matrix: Water Analysis Batch: 360497				Client Sample ID: MW-05 Prep Type: Total/NA					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.37		5.00	5.52		mg/L		103	75 - 125

Lab Sample ID: 500-119618-3 MSD Matrix: Water Analysis Batch: 360497				Client Sample ID: MW-05 Prep Type: Total/NA							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.37		5.00	5.57		mg/L		104	75 - 125	1	20

Lab Sample ID: 500-119618-5 MS Matrix: Water Analysis Batch: 360497				Client Sample ID: Dup Prep Type: Total/NA					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.46		5.00	5.60		mg/L		103	75 - 125

Lab Sample ID: 500-119618-5 MSD Matrix: Water Analysis Batch: 360497				Client Sample ID: Dup Prep Type: Total/NA							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Fluoride	0.46		5.00	5.71		mg/L		105	75 - 125	2	20

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

Lab Sample ID: MB 500-359576/3 Matrix: Water Analysis Batch: 359576				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			11/07/16 06:11	1

Lab Sample ID: LCS 500-359576/4 Matrix: Water Analysis Batch: 359576				Client Sample ID: Lab Control Sample Prep Type: Total/NA			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	20.0	20.7		mg/L		104	80 - 120

Lab Sample ID: MB 500-360173/3 Matrix: Water Analysis Batch: 360173				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			11/10/16 08:21	1

TestAmerica Chicago

# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

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

Lab Sample ID: LCS 500-360173/4  
Matrix: Water  
Analysis Batch: 360173

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	19.3		mg/L		96	80 - 120



**TestAmerica Chicago**  
 2417 Bond Street  
 University Park, IL 60484  
 Phone (708) 534-5200 Fax (708) 534-5211

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING



COO No: 500-40303-20783.1  
 Page: 1 of 1  
 Job #: 12313.0 500-119618

Lab No: 500-119618 COC  
 E-Mail: eric.liang@testamericainc.com

Sampler: Ian John Howatson  
 Phone: 830-290-6860

Client Information  
 Client Contact: Rishi Ghai  
 Company: KPRG & Associates Inc.  
 Address: 14665 W. Usbon Rd, Suite 2B  
 City: Brookfield  
 State: WI, 53008  
 Phone: 262-781-0476  
 Email: rghai@kprgandassociates.com

Due Date Requested:  
 TAT Requested (days): 16 days  
 PO #: 4601878426 Line Item 00040  
 WG #: 35686570  
 Project Name: Quarterly MWG Joliet #29 CCR  
 Site: Illinois

Preservation Codes:  
 A - HCL  
 B - NaOH  
 C - Zn Acetate  
 D - Nitric Acid  
 E - Nitric Acid  
 F - NaOH  
 G - Another  
 H - Acetic Acid  
 I - Ice  
 J - DI Water  
 K - EDTA  
 L - EDA  
 Other:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C-Comp, Gasgrab)	Matrix (Soil, Sewer, Insulation, Stormwater, Ashes)	Special Instructions/Note:
MW-03	11-2-16	15:30	G	Water	
MW-04	11-2-16	14:44	G	Water	
MW-06	11-2-16	09:55	G	Water	
MW-10	11-2-16	11:00	G	Water	
Dup	11-2-16	—	G	Water	

Special Instructions/Note:

Special Instructions/Note:

Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify) - Level IV

Empty Kit Relinquished by:  
 Relinquished by: [Signature]  
 Date: 11-4-16 09:40  
 Company: KPRG

Relinquished by:  
 Date: 11-4-16 09:40  
 Company: KPRG

Relinquished by:  
 Date: 11-4-16 09:40  
 Company: KPRG

Custody Seals Intact: Custody Seal No.:  
 A Yes Δ No

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MWG-13-15 59042  
 11/15/2016

0.9, 1.1

## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-119618-1

**Login Number: 119618**  
**List Number: 1**  
**Creator: Kelsey, Shawn M**

**List Source: TestAmerica Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	{0.9}(1.1)c
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.	True	



# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

**Client Sample ID: MW-03**

**Date Collected: 11/02/16 15:30**

**Date Received: 11/04/16 09:40**

**Lab Sample ID: 500-119618-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6010C		1	359565	11/06/16 18:07	PJ1	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359816	11/08/16 13:56	FXG	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359727	11/07/16 15:53	FXG	TAL CHI
Total/NA	Prep	7470A			359777	11/08/16 12:15	MJD	TAL CHI
Total/NA	Analysis	7470A		1	360028	11/09/16 11:28	MJD	TAL CHI
Total/NA	Analysis	SM 2540C		1	359470	11/05/16 20:45	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	360527	11/12/16 00:10	HMW	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	360497	11/11/16 14:19	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		4	359576		CLB	TAL CHI
						(Start) 11/07/16 06:28		
						(End) 11/07/16 06:29		

**Client Sample ID: MW-04**

**Date Collected: 11/02/16 14:44**

**Date Received: 11/04/16 09:40**

**Lab Sample ID: 500-119618-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6010C		1	359565	11/06/16 18:26	PJ1	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359816	11/08/16 14:20	FXG	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359727	11/07/16 16:20	FXG	TAL CHI
Total/NA	Prep	7470A			359777	11/08/16 12:15	MJD	TAL CHI
Total/NA	Analysis	7470A		1	360028	11/09/16 11:29	MJD	TAL CHI
Total/NA	Analysis	SM 2540C		1	359470	11/05/16 20:49	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	360527	11/12/16 00:10	HMW	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	360497	11/11/16 14:29	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		4	359576		CLB	TAL CHI
						(Start) 11/07/16 06:29		
						(End) 11/07/16 06:30		

**Client Sample ID: MW-05**

**Date Collected: 11/02/16 09:55**

**Date Received: 11/04/16 09:40**

**Lab Sample ID: 500-119618-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6010C		1	359565	11/06/16 18:29	PJ1	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI

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# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

**Client Sample ID: MW-05**

**Date Collected: 11/02/16 09:55**

**Date Received: 11/04/16 09:40**

**Lab Sample ID: 500-119618-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Analysis	6020A		1	359816	11/08/16 14:25	FXG	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359727	11/07/16 16:24	FXG	TAL CHI
Total/NA	Prep	7470A			359777	11/08/16 12:15	MJD	TAL CHI
Total/NA	Analysis	7470A		1	360028	11/09/16 11:31	MJD	TAL CHI
Total/NA	Analysis	SM 2540C		1	359470	11/05/16 20:54	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	360527	11/12/16 00:11	HMW	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	360497	11/11/16 14:32	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		5	359576		CLB	TAL CHI
					(Start)	11/07/16 06:30		
					(End)	11/07/16 06:31		

**Client Sample ID: MW-10**

**Date Collected: 11/02/16 11:00**

**Date Received: 11/04/16 09:40**

**Lab Sample ID: 500-119618-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6010C		1	359565	11/06/16 18:33	PJ1	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359816	11/08/16 14:29	FXG	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359727	11/07/16 16:27	FXG	TAL CHI
Total/NA	Prep	7470A			359777	11/08/16 12:15	MJD	TAL CHI
Total/NA	Analysis	7470A		1	360028	11/09/16 11:32	MJD	TAL CHI
Total/NA	Analysis	SM 2540C		1	359525	11/07/16 01:19	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	360527	11/12/16 00:11	HMW	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	360497	11/11/16 14:47	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		4	359576		CLB	TAL CHI
					(Start)	11/07/16 06:31		
					(End)	11/07/16 06:32		

**Client Sample ID: Dup**

**Date Collected: 11/02/16 00:00**

**Date Received: 11/04/16 09:40**

**Lab Sample ID: 500-119618-5**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6010C		1	359565	11/06/16 18:44	PJ1	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359816	11/08/16 14:34	FXG	TAL CHI
Total Recoverable	Prep	3005A			359444	11/05/16 09:36	JNH	TAL CHI
Total Recoverable	Analysis	6020A		1	359727	11/07/16 16:31	FXG	TAL CHI

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# Lab Chronicle

Client: KPRG and Associates, Inc.  
Project/Site: Joliet #29 CCR

TestAmerica Job ID: 500-119618-1

**Client Sample ID: Dup**

**Lab Sample ID: 500-119618-5**

Date Collected: 11/02/16 00:00

Matrix: Water

Date Received: 11/04/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			359777	11/08/16 12:15	MJD	TAL CHI
Total/NA	Analysis	7470A		1	360028	11/09/16 11:34	MJD	TAL CHI
Total/NA	Analysis	SM 2540C		1	359525	11/07/16 01:23	CLB	TAL CHI
Total/NA	Analysis	SM 4500 Cl- E		5	360527	11/12/16 00:12	HMW	TAL CHI
Total/NA	Analysis	SM 4500 F C		1	360497	11/11/16 14:50	EAT	TAL CHI
Total/NA	Analysis	SM 4500 SO4 E		4	360173		CLB	TAL CHI
					(Start)	11/10/16 08:23		
					(End)	11/10/16 08:24		

**Laboratory References:**

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