

# 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: 500-115612-1  
Client Project/Site: Will County CCR

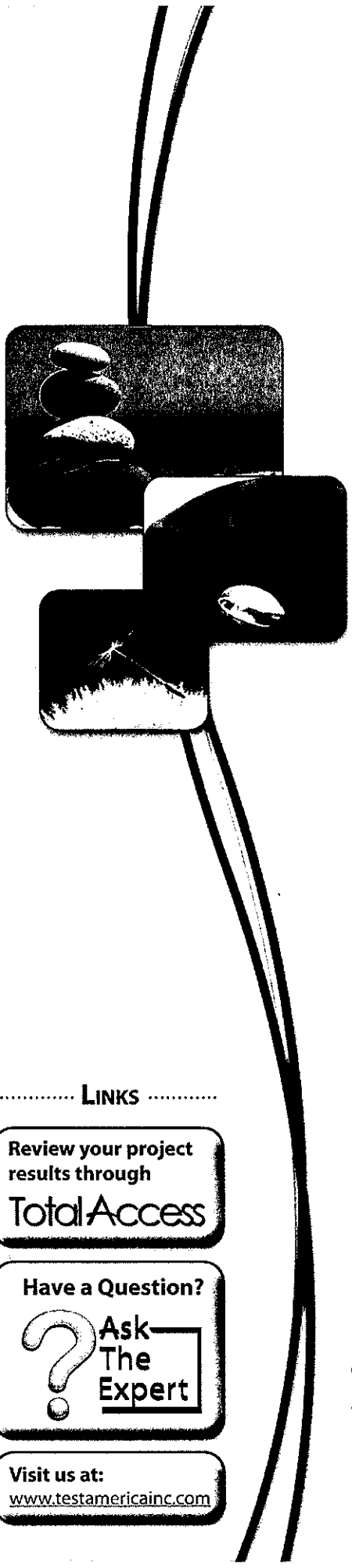
For:  
KPRG and Associates, Inc.  
14665 West Lisbon Road,  
Suite 2B  
Brookfield, Wisconsin 53005

Attn: Richard Gnat



Authorized for release by:  
8/24/2016 3:59:10 PM

Eric Lang, Manager of Project Management  
(708)534-5200  
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..... LINKS .....

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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

TestAmerica Job ID: 500-115612-1

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**Job ID: 500-115612-1**

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**Laboratory: TestAmerica Chicago**

**Narrative**

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**Job Narrative**  
**500-115612-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 8/11/2016 4:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.4° C and 5.7° C.

**Metals**

Method(s) 6020A: The internal standard (Tb) was used to report the elements Lead and Thallium in batch 500-347758. This was due to the LCS being spiked with the trace digestion spike which contains Bismuth.

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

TestAmerica Job ID: 500-115612-1

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

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### 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

TestAmerica Chicago

# Sample Summary

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

TestAmerica Job ID: 500-115612-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-115612-1	MW-05 CCR	Water	08/10/16 14:14	08/11/16 16:25
500-115612-2	MW-06 CCR	Water	08/11/16 08:28	08/11/16 16:25
500-115612-3	MW-09 CCR	Water	08/09/16 16:39	08/11/16 16:25
500-115612-4	MW-10 CCR	Water	08/10/16 12:17	08/11/16 16:25
500-115612-5	MW-11 CCR	Water	08/10/16 11:11	08/11/16 16:25
500-115612-6	MW-12 CCR	Water	08/10/16 10:06	08/11/16 16:25
500-115612-7	DUPLICATE	Water	08/10/16 00:00	08/11/16 16:25

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# Client Sample Results

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

TestAmerica Job ID: 500-115612-1

**Client Sample ID: MW-05 CCR**

**Lab Sample ID: 500-115612-1**

Date Collected: 08/10/16 14:14

Matrix: Water

Date Received: 08/11/16 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		08/12/16 07:54	08/13/16 01:37	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		08/12/16 07:54	08/12/16 14:45	1
Arsenic	0.0044		0.0010		mg/L		08/12/16 07:54	08/12/16 14:45	1
Barium	0.043		0.0025		mg/L		08/12/16 07:54	08/12/16 14:45	1
Beryllium	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:45	1
Boron	3.6		0.25		mg/L		08/12/16 07:54	08/15/16 11:01	5
Cadmium	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:45	1
Calcium	67		0.20		mg/L		08/12/16 07:54	08/12/16 14:45	1
Chromium	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 14:45	1
Cobalt	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:45	1
Lead	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:45	1
Molybdenum	0.14		0.0050		mg/L		08/12/16 07:54	08/12/16 14:45	1
Selenium	0.0049		0.0025		mg/L		08/12/16 07:54	08/12/16 14:45	1
Thallium	<0.0020		0.0020		mg/L		08/12/16 07:54	08/12/16 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020	F1	0.00020		mg/L		08/12/16 12:45	08/15/16 11:12	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			08/12/16 05:27	1
Chloride	120		10		mg/L			08/14/16 21:18	5
Fluoride	0.72		0.10		mg/L			08/16/16 15:32	1
Sulfate	480		100		mg/L			08/22/16 09:47	20

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# Client Sample Results

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

TestAmerica Job ID: 500-115612-1

**Client Sample ID: MW-06 CCR**

**Lab Sample ID: 500-115612-2**

Date Collected: 08/11/16 08:28

Matrix: Water

Date Received: 08/11/16 16:25

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.010		mg/L		08/12/16 07:54	08/13/16 01:43	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/12/16 07:54	08/12/16 14:49	1
Arsenic	0.0029		0.0010		mg/L		08/12/16 07:54	08/12/16 14:49	1
Barium	0.086		0.0025		mg/L		08/12/16 07:54	08/12/16 14:49	1
Beryllium	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:49	1
Boron	3.6		0.25		mg/L		08/12/16 07:54	08/15/16 11:04	5
Cadmium	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:49	1
Calcium	110		0.20		mg/L		08/12/16 07:54	08/12/16 14:49	1
Chromium	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 14:49	1
Cobalt	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:49	1
Lead	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:49	1
Molybdenum	0.038		0.0050		mg/L		08/12/16 07:54	08/12/16 14:49	1
Selenium	<0.0025		0.0025		mg/L		08/12/16 07:54	08/12/16 14:49	1
Thallium	<0.0020		0.0020		mg/L		08/12/16 07:54	08/12/16 14:49	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/12/16 12:45	08/15/16 11:18	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	840		10		mg/L			08/12/16 05:34	1
Chloride	58		2.0		mg/L			08/14/16 20:56	1
Fluoride	0.35		0.10		mg/L			08/16/16 15:34	1
Sulfate	330		100		mg/L			08/22/16 09:48	20

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TestAmerica Chicago

MWG13-15\_58979  
8/24/2016

# Client Sample Results

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

TestAmerica Job ID: 500-115612-1

**Client Sample ID: MW-09 CCR**

**Lab Sample ID: 500-115612-3**

Date Collected: 08/09/16 16:39

Matrix: Water

Date Received: 08/11/16 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		08/12/16 07:54	08/13/16 01:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/12/16 07:54	08/12/16 14:53	1
Arsenic	0.0052		0.0010		mg/L		08/12/16 07:54	08/12/16 14:53	1
Barium	0.031		0.0025		mg/L		08/12/16 07:54	08/12/16 14:53	1
Beryllium	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:53	1
Boron	2.2		0.25		mg/L		08/12/16 07:54	08/15/16 11:08	5
Cadmium	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:53	1
Calcium	53		0.20		mg/L		08/12/16 07:54	08/12/16 14:53	1
Chromium	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 14:53	1
Cobalt	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:53	1
Lead	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:53	1
Molybdenum	0.14		0.0050		mg/L		08/12/16 07:54	08/12/16 14:53	1
Selenium	<0.0025		0.0025		mg/L		08/12/16 07:54	08/12/16 14:53	1
Thallium	<0.0020		0.0020		mg/L		08/12/16 07:54	08/12/16 14:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/12/16 12:45	08/15/16 11:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	750		10		mg/L			08/12/16 05:37	1
Chloride	140		10		mg/L			08/14/16 21:19	5
Fluoride	0.48		0.10		mg/L			08/16/16 15:37	1
Sulfate	280		50		mg/L			08/22/16 09:49	10

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# Client Sample Results

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

TestAmerica Job ID: 500-115612-1

**Client Sample ID: MW-10 CCR**

**Lab Sample ID: 500-115612-4**

Date Collected: 08/10/16 12:17

Matrix: Water

Date Received: 08/11/16 16:25

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.021		0.010		mg/L		08/12/16 07:54	08/13/16 01:52	1

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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		08/12/16 07:54	08/12/16 14:57	1
Arsenic	0.017		0.0010		mg/L		08/12/16 07:54	08/12/16 14:57	1
Barium	0.11		0.0025		mg/L		08/12/16 07:54	08/12/16 14:57	1
Beryllium	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:57	1
Boron	4.3		0.25		mg/L		08/12/16 07:54	08/15/16 11:12	5
Cadmium	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:57	1
Calcium	150		0.20		mg/L		08/12/16 07:54	08/12/16 14:57	1
Chromium	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 14:57	1
Cobalt	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:57	1
Lead	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:57	1
Molybdenum	0.082		0.0050		mg/L		08/12/16 07:54	08/12/16 14:57	1
Selenium	<0.0025		0.0025		mg/L		08/12/16 07:54	08/12/16 14:57	1
Thallium	<0.0020		0.0020		mg/L		08/12/16 07:54	08/12/16 14:57	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/12/16 12:45	08/15/16 11:26	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	970		10		mg/L			08/12/16 05:41	1
Chloride	120		10		mg/L			08/14/16 21:19	5
Fluoride	0.78		0.10		mg/L			08/16/16 15:39	1
Sulfate	230		50		mg/L			08/22/16 09:50	10

TestAmerica Chicago

MWG13-15\_58981  
8/24/2016

# Client Sample Results

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

TestAmerica Job ID: 500-115612-1

**Client Sample ID: MW-11 CCR**

**Lab Sample ID: 500-115612-5**

Date Collected: 08/10/16 11:11

Matrix: Water

Date Received: 08/11/16 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		08/12/16 07:54	08/13/16 01:57	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		08/12/16 07:54	08/12/16 15:00	1
Arsenic	0.0072		0.0010		mg/L		08/12/16 07:54	08/12/16 15:00	1
Barium	0.12		0.0025		mg/L		08/12/16 07:54	08/12/16 15:00	1
Beryllium	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 15:00	1
Boron	3.1		0.25		mg/L		08/12/16 07:54	08/15/16 11:16	5
Cadmium	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 15:00	1
Calcium	96		0.20		mg/L		08/12/16 07:54	08/12/16 15:00	1
Chromium	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 15:00	1
Cobalt	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 15:00	1
Lead	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 15:00	1
Molybdenum	0.087		0.0050		mg/L		08/12/16 07:54	08/12/16 15:00	1
Selenium	<0.0025		0.0025		mg/L		08/12/16 07:54	08/12/16 15:00	1
Thallium	<0.0020		0.0020		mg/L		08/12/16 07:54	08/12/16 15:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/12/16 12:45	08/15/16 11:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	660		10		mg/L			08/12/16 05:44	1
Chloride	86		10		mg/L			08/14/16 21:21	5
Fluoride	0.72		0.10		mg/L			08/16/16 18:18	1
Sulfate	150		50		mg/L			08/22/16 09:55	10

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# Client Sample Results

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

TestAmerica Job ID: 500-115612-1

**Client Sample ID: MW-12 CCR**

**Lab Sample ID: 500-115612-6**

Date Collected: 08/10/16 10:06

Matrix: Water

Date Received: 08/11/16 16:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.010		mg/L		08/12/16 07:54	08/13/16 02:01	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		08/12/16 07:54	08/12/16 15:04	1
Arsenic	0.0017		0.0010		mg/L		08/12/16 07:54	08/12/16 15:04	1
Barium	0.12		0.0025		mg/L		08/12/16 07:54	08/12/16 15:04	1
Beryllium	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 15:04	1
Boron	2.4		0.25		mg/L		08/12/16 07:54	08/15/16 11:19	5
Cadmium	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 15:04	1
Calcium	170		0.20		mg/L		08/12/16 07:54	08/12/16 15:04	1
Chromium	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 15:04	1
Cobalt	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 15:04	1
Lead	0.00060		0.00050		mg/L		08/12/16 07:54	08/12/16 15:04	1
Molybdenum	0.040		0.0050		mg/L		08/12/16 07:54	08/12/16 15:04	1
Selenium	0.0077		0.0025		mg/L		08/12/16 07:54	08/12/16 15:04	1
Thallium	<0.0020		0.0020		mg/L		08/12/16 07:54	08/12/16 15:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/12/16 12:45	08/15/16 11:28	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			08/12/16 05:47	1
Chloride	140		10		mg/L			08/14/16 21:22	5
Fluoride	0.49		0.10		mg/L			08/16/16 15:51	1
Sulfate	280		50		mg/L			08/22/16 09:57	10

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## Client Sample Results

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

TestAmerica Job ID: 500-115612-1

**Client Sample ID: DUPLICATE**

**Lab Sample ID: 500-115612-7**

Date Collected: 08/10/16 00:00

Matrix: Water

Date Received: 08/11/16 16:25

Method: 6010C - Metals (ICP) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		08/12/16 07:54	08/13/16 02:05	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		08/12/16 07:54	08/12/16 15:16	1
Arsenic	0.0041		0.0010		mg/L		08/12/16 07:54	08/12/16 15:16	1
Barium	0.042		0.0025		mg/L		08/12/16 07:54	08/12/16 15:16	1
Beryllium	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 15:16	1
Boron	3.3	F1	0.25		mg/L		08/12/16 07:54	08/15/16 11:31	5
Cadmium	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 15:16	1
Calcium	64		0.20		mg/L		08/12/16 07:54	08/12/16 15:16	1
Chromium	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 15:16	1
Cobalt	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 15:16	1
Lead	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 15:16	1
Molybdenum	0.14		0.0050		mg/L		08/12/16 07:54	08/12/16 15:16	1
Selenium	0.0051		0.0025		mg/L		08/12/16 07:54	08/12/16 15:16	1
Thallium	<0.0020		0.0020		mg/L		08/12/16 07:54	08/12/16 15:16	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00022		0.00020		mg/L		08/12/16 12:45	08/15/16 11:30	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1000		10		mg/L			08/12/16 05:51	1
Chloride	130		10		mg/L			08/14/16 21:22	5
Fluoride	0.67		0.10		mg/L			08/16/16 15:53	1
Sulfate	540		100		mg/L			08/22/16 09:58	20

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TestAmerica Chicago

# Definitions/Glossary

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

TestAmerica Job ID: 500-115612-1

## Qualifiers

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
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: Will County CCR

TestAmerica Job ID: 500-115612-1

### Metals

#### Prep Batch: 347544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total Recoverable	Water	3005A	
500-115612-2	MW-06 CCR	Total Recoverable	Water	3005A	
500-115612-3	MW-09 CCR	Total Recoverable	Water	3005A	
500-115612-4	MW-10 CCR	Total Recoverable	Water	3005A	
500-115612-5	MW-11 CCR	Total Recoverable	Water	3005A	
500-115612-6	MW-12 CCR	Total Recoverable	Water	3005A	
500-115612-7	DUPLICATE	Total Recoverable	Water	3005A	
MB 500-347544/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-347544/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-115612-7 MS	DUPLICATE	Total Recoverable	Water	3005A	
500-115612-7 MSD	DUPLICATE	Total Recoverable	Water	3005A	
500-115612-7 DU	DUPLICATE	Total Recoverable	Water	3005A	

#### Prep Batch: 347607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total/NA	Water	7470A	
500-115612-2	MW-06 CCR	Total/NA	Water	7470A	
500-115612-3	MW-09 CCR	Total/NA	Water	7470A	
500-115612-4	MW-10 CCR	Total/NA	Water	7470A	
500-115612-5	MW-11 CCR	Total/NA	Water	7470A	
500-115612-6	MW-12 CCR	Total/NA	Water	7470A	
500-115612-7	DUPLICATE	Total/NA	Water	7470A	
MB 500-347607/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-347607/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-115612-1 MS	MW-05 CCR	Total/NA	Water	7470A	
500-115612-1 MSD	MW-05 CCR	Total/NA	Water	7470A	
500-115612-1 DU	MW-05 CCR	Total/NA	Water	7470A	

#### Analysis Batch: 347665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total Recoverable	Water	6010C	347544
500-115612-2	MW-06 CCR	Total Recoverable	Water	6010C	347544
500-115612-3	MW-09 CCR	Total Recoverable	Water	6010C	347544
500-115612-4	MW-10 CCR	Total Recoverable	Water	6010C	347544
500-115612-5	MW-11 CCR	Total Recoverable	Water	6010C	347544
500-115612-6	MW-12 CCR	Total Recoverable	Water	6010C	347544
500-115612-7	DUPLICATE	Total Recoverable	Water	6010C	347544
MB 500-347544/1-A	Method Blank	Total Recoverable	Water	6010C	347544
LCS 500-347544/2-A	Lab Control Sample	Total Recoverable	Water	6010C	347544
500-115612-7 MS	DUPLICATE	Total Recoverable	Water	6010C	347544
500-115612-7 MSD	DUPLICATE	Total Recoverable	Water	6010C	347544
500-115612-7 DU	DUPLICATE	Total Recoverable	Water	6010C	347544

#### Analysis Batch: 347758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total Recoverable	Water	6020A	347544
500-115612-2	MW-06 CCR	Total Recoverable	Water	6020A	347544
500-115612-3	MW-09 CCR	Total Recoverable	Water	6020A	347544
500-115612-4	MW-10 CCR	Total Recoverable	Water	6020A	347544
500-115612-5	MW-11 CCR	Total Recoverable	Water	6020A	347544
500-115612-6	MW-12 CCR	Total Recoverable	Water	6020A	347544

TestAmerica Chicago

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8/24/2016

## QC Association Summary

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

TestAmerica Job ID: 500-115612-1

### Metals (Continued)

#### Analysis Batch: 347758 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-7	DUPLICATE	Total Recoverable	Water	6020A	347544
MB 500-347544/1-A	Method Blank	Total Recoverable	Water	6020A	347544
LCS 500-347544/2-A	Lab Control Sample	Total Recoverable	Water	6020A	347544
500-115612-7 MS	DUPLICATE	Total Recoverable	Water	6020A	347544
500-115612-7 MSD	DUPLICATE	Total Recoverable	Water	6020A	347544
500-115612-7 DU	DUPLICATE	Total Recoverable	Water	6020A	347544

#### Analysis Batch: 347804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total/NA	Water	7470A	347607
500-115612-2	MW-06 CCR	Total/NA	Water	7470A	347607
500-115612-3	MW-09 CCR	Total/NA	Water	7470A	347607
500-115612-4	MW-10 CCR	Total/NA	Water	7470A	347607
500-115612-5	MW-11 CCR	Total/NA	Water	7470A	347607
500-115612-6	MW-12 CCR	Total/NA	Water	7470A	347607
500-115612-7	DUPLICATE	Total/NA	Water	7470A	347607
MB 500-347607/12-A	Method Blank	Total/NA	Water	7470A	347607
LCS 500-347607/13-A	Lab Control Sample	Total/NA	Water	7470A	347607
500-115612-1 MS	MW-05 CCR	Total/NA	Water	7470A	347607
500-115612-1 MSD	MW-05 CCR	Total/NA	Water	7470A	347607
500-115612-1 DU	MW-05 CCR	Total/NA	Water	7470A	347607

#### Analysis Batch: 347831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total Recoverable	Water	6020A	347544
500-115612-2	MW-06 CCR	Total Recoverable	Water	6020A	347544
500-115612-3	MW-09 CCR	Total Recoverable	Water	6020A	347544
500-115612-4	MW-10 CCR	Total Recoverable	Water	6020A	347544
500-115612-5	MW-11 CCR	Total Recoverable	Water	6020A	347544
500-115612-6	MW-12 CCR	Total Recoverable	Water	6020A	347544
500-115612-7	DUPLICATE	Total Recoverable	Water	6020A	347544
MB 500-347544/1-A	Method Blank	Total Recoverable	Water	6020A	347544
LCS 500-347544/2-A	Lab Control Sample	Total Recoverable	Water	6020A	347544
500-115612-7 MS	DUPLICATE	Total Recoverable	Water	6020A	347544
500-115612-7 MSD	DUPLICATE	Total Recoverable	Water	6020A	347544
500-115612-7 DU	DUPLICATE	Total Recoverable	Water	6020A	347544

### General Chemistry

#### Analysis Batch: 347518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total/NA	Water	SM 2540C	
500-115612-2	MW-06 CCR	Total/NA	Water	SM 2540C	
500-115612-3	MW-09 CCR	Total/NA	Water	SM 2540C	
500-115612-4	MW-10 CCR	Total/NA	Water	SM 2540C	
500-115612-5	MW-11 CCR	Total/NA	Water	SM 2540C	
500-115612-6	MW-12 CCR	Total/NA	Water	SM 2540C	
500-115612-7	DUPLICATE	Total/NA	Water	SM 2540C	
MB 500-347518/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-347518/2	Lab Control Sample	Total/NA	Water	SM 2540C	

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## QC Association Summary

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

TestAmerica Job ID: 500-115612-1

### General Chemistry (Continued)

#### Analysis Batch: 347518 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1 DU	MW-05 CCR	Total/NA	Water	SM 2540C	

#### Analysis Batch: 347721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total/NA	Water	SM 4500 Cl- E	
500-115612-2	MW-06 CCR	Total/NA	Water	SM 4500 Cl- E	
500-115612-3	MW-09 CCR	Total/NA	Water	SM 4500 Cl- E	
500-115612-4	MW-10 CCR	Total/NA	Water	SM 4500 Cl- E	
500-115612-5	MW-11 CCR	Total/NA	Water	SM 4500 Cl- E	
500-115612-6	MW-12 CCR	Total/NA	Water	SM 4500 Cl- E	
500-115612-7	DUPLICATE	Total/NA	Water	SM 4500 Cl- E	
MB 500-347721/12	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-347721/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-115612-4 MS	MW-10 CCR	Total/NA	Water	SM 4500 Cl- E	
500-115612-4 MSD	MW-10 CCR	Total/NA	Water	SM 4500 Cl- E	

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#### Analysis Batch: 348019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total/NA	Water	SM 4500 F C	
500-115612-2	MW-06 CCR	Total/NA	Water	SM 4500 F C	
500-115612-3	MW-09 CCR	Total/NA	Water	SM 4500 F C	
500-115612-4	MW-10 CCR	Total/NA	Water	SM 4500 F C	
500-115612-6	MW-12 CCR	Total/NA	Water	SM 4500 F C	
500-115612-7	DUPLICATE	Total/NA	Water	SM 4500 F C	
MB 500-348019/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-348019/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

#### Analysis Batch: 348036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-5	MW-11 CCR	Total/NA	Water	SM 4500 F C	
MB 500-348036/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-348036/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

#### Analysis Batch: 348702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-115612-1	MW-05 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-2	MW-06 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-3	MW-09 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-4	MW-10 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-5	MW-11 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-6	MW-12 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-7	DUPLICATE	Total/NA	Water	SM 4500 SO4 E	
MB 500-348702/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-348702/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-115612-4 MS	MW-10 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-4 MSD	MW-10 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-5 MS	MW-11 CCR	Total/NA	Water	SM 4500 SO4 E	
500-115612-5 MSD	MW-11 CCR	Total/NA	Water	SM 4500 SO4 E	

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8/24/2016



## QC Sample Results

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

TestAmerica Job ID: 500-115612-1

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

Lab Sample ID: MB 500-347544/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total Recoverable			
Analysis Batch: 347665						Prep Batch: 347544			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		08/12/16 07:54	08/13/16 01:29	1

Lab Sample ID: LCS 500-347544/2-A						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total Recoverable			
Analysis Batch: 347665						Prep Batch: 347544			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Lithium	0.500	0.565		mg/L		113	80 - 120		

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Lab Sample ID: 500-115612-7 MS						Client Sample ID: DUPLICATE			
Matrix: Water						Prep Type: Total Recoverable			
Analysis Batch: 347665						Prep Batch: 347544			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lithium	<0.010		0.500	0.551		mg/L		109	75 - 125

Lab Sample ID: 500-115612-7 MSD						Client Sample ID: DUPLICATE					
Matrix: Water						Prep Type: Total Recoverable					
Analysis Batch: 347665						Prep Batch: 347544					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lithium	<0.010		0.500	0.531		mg/L		105	75 - 125	4	20

Lab Sample ID: 500-115612-7 DU						Client Sample ID: DUPLICATE				
Matrix: Water						Prep Type: Total Recoverable				
Analysis Batch: 347665						Prep Batch: 347544				
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)

Lab Sample ID: MB 500-347544/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total Recoverable			
Analysis Batch: 347758						Prep Batch: 347544			
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/12/16 07:54	08/12/16 14:30	1
Arsenic	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:30	1
Barium	<0.0025		0.0025		mg/L		08/12/16 07:54	08/12/16 14:30	1
Beryllium	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:30	1
Cadmium	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:30	1
Calcium	<0.20		0.20		mg/L		08/12/16 07:54	08/12/16 14:30	1
Chromium	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 14:30	1
Cobalt	<0.0010		0.0010		mg/L		08/12/16 07:54	08/12/16 14:30	1
Lead	<0.00050		0.00050		mg/L		08/12/16 07:54	08/12/16 14:30	1
Molybdenum	<0.0050		0.0050		mg/L		08/12/16 07:54	08/12/16 14:30	1
Selenium	<0.0025		0.0025		mg/L		08/12/16 07:54	08/12/16 14:30	1
Thallium	<0.0020		0.0020		mg/L		08/12/16 07:54	08/12/16 14:30	1

TestAmerica Chicago

MWG13-15\_58989  
8/24/2016

## QC Sample Results

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

TestAmerica Job ID: 500-115612-1

**Lab Sample ID: MB 500-347544/1-A**  
**Matrix: Water**  
**Analysis Batch: 347831**

**Client Sample ID: Method Blank**  
**Prep Type: Total Recoverable**  
**Prep Batch: 347544**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		08/12/16 07:54	08/15/16 10:53	1

**Lab Sample ID: LCS 500-347544/2-A**  
**Matrix: Water**  
**Analysis Batch: 347758**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 347544**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.104		mg/L		104	80 - 120
Barium	2.00	2.09		mg/L		105	80 - 120
Beryllium	0.0500	0.0506		mg/L		101	80 - 120
Cadmium	0.0500	0.0526		mg/L		105	80 - 120
Calcium	10.0	11.7		mg/L		117	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	1.02		mg/L		102	80 - 120
Selenium	0.100	0.105		mg/L		105	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

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**Lab Sample ID: LCS 500-347544/2-A**  
**Matrix: Water**  
**Analysis Batch: 347831**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total Recoverable**  
**Prep Batch: 347544**

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

**Lab Sample ID: 500-115612-7 MS**  
**Matrix: Water**  
**Analysis Batch: 347758**

**Client Sample ID: DUPLICATE**  
**Prep Type: Total Recoverable**  
**Prep Batch: 347544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0041		0.100	0.117		mg/L		113	75 - 125
Barium	0.042		2.00	2.19		mg/L		107	75 - 125
Beryllium	<0.0010		0.0500	0.0534		mg/L		107	75 - 125
Cadmium	<0.00050		0.0500	0.0525		mg/L		105	75 - 125
Calcium	64		10.0	79.7	4	mg/L		161	75 - 125
Chromium	<0.0050		0.200	0.204		mg/L		102	75 - 125
Cobalt	<0.0010		0.500	0.516		mg/L		103	75 - 125
Lead	<0.00050		0.100	0.104		mg/L		104	75 - 125
Molybdenum	0.14		1.00	1.19		mg/L		105	75 - 125
Selenium	0.0051		0.100	0.118		mg/L		113	75 - 125
Thallium	<0.0020		0.100	0.104		mg/L		104	75 - 125

**Lab Sample ID: 500-115612-7 MS**  
**Matrix: Water**  
**Analysis Batch: 347831**

**Client Sample ID: DUPLICATE**  
**Prep Type: Total Recoverable**  
**Prep Batch: 347544**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits

TestAmerica Chicago

MWG13-15\_58990  
8/24/2016

# QC Sample Results

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

TestAmerica Job ID: 500-115612-1

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

Lab Sample ID: 500-115612-7 MSD Matrix: Water Analysis Batch: 347758							Client Sample ID: DUPLICATE Prep Type: Total Recoverable Prep Batch: 347544				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.503		mg/L		101	75 - 125	5	20
Arsenic	0.0041		0.100	0.112		mg/L		107	75 - 125	5	20
Barium	0.042		2.00	2.12		mg/L		104	75 - 125	3	20
Beryllium	<0.0010		0.0500	0.0487		mg/L		97	75 - 125	9	20
Cadmium	<0.00050		0.0500	0.0508		mg/L		102	75 - 125	3	20
Calcium	64		10.0	75.0	4	mg/L		114	75 - 125	6	20
Chromium	<0.0050		0.200	0.194		mg/L		97	75 - 125	5	20
Cobalt	<0.0010		0.500	0.493		mg/L		99	75 - 125	5	20
Lead	<0.00050		0.100	0.101		mg/L		101	75 - 125	3	20
Molybdenum	0.14		1.00	1.14		mg/L		100	75 - 125	5	20
Selenium	0.0051		0.100	0.112		mg/L		107	75 - 125	6	20
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125	2	20

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Lab Sample ID: 500-115612-7 MSD Matrix: Water Analysis Batch: 347831							Client Sample ID: DUPLICATE Prep Type: Total Recoverable Prep Batch: 347544				
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Boron	3.3	F1	1.00	4.41		mg/L		107	75 - 125	6	20

Lab Sample ID: 500-115612-7 DU Matrix: Water Analysis Batch: 347758							Client Sample ID: DUPLICATE Prep Type: Total Recoverable Prep Batch: 347544				
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit			
Antimony	<0.0030		<0.0030		mg/L		NC	20			
Arsenic	0.0041		0.00427		mg/L		3	20			
Barium	0.042		0.0426		mg/L		2	20			
Beryllium	<0.0010		<0.0010		mg/L		NC	20			
Cadmium	<0.00050		<0.00050		mg/L		NC	20			
Calcium	64		66.0		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	0.14		0.145		mg/L		4	20			
Selenium	0.0051		0.00532		mg/L		4	20			
Thallium	<0.0020		<0.0020		mg/L		NC	20			

Lab Sample ID: 500-115612-7 DU Matrix: Water Analysis Batch: 347831							Client Sample ID: DUPLICATE Prep Type: Total Recoverable Prep Batch: 347544				
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit			
Boron	3.3	F1	3.48		mg/L		4	20			

TestAmerica Chicago

MWG13-15\_58991  
8/24/2016

## QC Sample Results

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

TestAmerica Job ID: 500-115612-1

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

<b>Lab Sample ID: MB 500-347607/12-A</b> <b>Matrix: Water</b> <b>Analysis Batch: 347804</b>						<b>Client Sample ID: Method Blank</b> <b>Prep Type: Total/NA</b> <b>Prep Batch: 347607</b>			
Analyte	Result	MB MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/12/16 12:45	08/15/16 11:08	1

<b>Lab Sample ID: LCS 500-347607/13-A</b> <b>Matrix: Water</b> <b>Analysis Batch: 347804</b>						<b>Client Sample ID: Lab Control Sample</b> <b>Prep Type: Total/NA</b> <b>Prep Batch: 347607</b>			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.00200	0.00195		mg/L		97	80 - 120		

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<b>Lab Sample ID: 500-115612-1 MS</b> <b>Matrix: Water</b> <b>Analysis Batch: 347804</b>						<b>Client Sample ID: MW-05 CCR</b> <b>Prep Type: Total/NA</b> <b>Prep Batch: 347607</b>			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020	F1	0.00100	0.00127	F1	mg/L		127	75 - 125

<b>Lab Sample ID: 500-115612-1 MSD</b> <b>Matrix: Water</b> <b>Analysis Batch: 347804</b>						<b>Client Sample ID: MW-05 CCR</b> <b>Prep Type: Total/NA</b> <b>Prep Batch: 347607</b>					
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020	F1	0.00100	0.00122		mg/L		122	75 - 125	4	20

<b>Lab Sample ID: 500-115612-1 DU</b> <b>Matrix: Water</b> <b>Analysis Batch: 347804</b>						<b>Client Sample ID: MW-05 CCR</b> <b>Prep Type: Total/NA</b> <b>Prep Batch: 347607</b>			
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit	
Mercury	<0.00020	F1	<0.00020		mg/L		NC	20	

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

<b>Lab Sample ID: MB 500-347518/1</b> <b>Matrix: Water</b> <b>Analysis Batch: 347518</b>						<b>Client Sample ID: Method Blank</b> <b>Prep Type: Total/NA</b>			
Analyte	Result	MB MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			08/12/16 04:36	1

<b>Lab Sample ID: LCS 500-347518/2</b> <b>Matrix: Water</b> <b>Analysis Batch: 347518</b>						<b>Client Sample ID: Lab Control Sample</b> <b>Prep Type: Total/NA</b>			
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids	250	286		mg/L		114	80 - 120		

TestAmerica Chicago

## QC Sample Results

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

TestAmerica Job ID: 500-115612-1

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

Lab Sample ID: 500-115612-1 DU						Client Sample ID: MW-05 CCR			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 347518									
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit	
Total Dissolved Solids	970		984		mg/L		1	5	

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

Lab Sample ID: MB 500-347721/12						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 347721									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			08/14/16 20:41	1

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Lab Sample ID: LCS 500-347721/13						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 347721									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	50.0	50.6		mg/L		101	80 - 120		

Lab Sample ID: 500-115612-4 MS						Client Sample ID: MW-10 CCR			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 347721									
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	120		50.0	159		mg/L		78	75 - 125

Lab Sample ID: 500-115612-4 MSD						Client Sample ID: MW-10 CCR					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 347721											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	120		50.0	161		mg/L		83	75 - 125	2	20

### Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-348019/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 348019									
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			08/16/16 14:39	1

Lab Sample ID: LCS 500-348019/4						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 348019									
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride	10.0	10.2		mg/L		102	80 - 120		

TestAmerica Chicago

# QC Sample Results

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

TestAmerica Job ID: 500-115612-1

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

Lab Sample ID: MB 500-348036/3  
Matrix: Water  
Analysis Batch: 348036

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			08/16/16 17:01	1

Lab Sample ID: LCS 500-348036/4  
Matrix: Water  
Analysis Batch: 348036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	10.0	10.1		mg/L		101	80 - 120

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

Lab Sample ID: MB 500-348702/3  
Matrix: Water  
Analysis Batch: 348702

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			08/22/16 09:44	1

Lab Sample ID: LCS 500-348702/4  
Matrix: Water  
Analysis Batch: 348702

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	19.7		mg/L		99	80 - 120

Lab Sample ID: 500-115612-4 MS  
Matrix: Water  
Analysis Batch: 348702

Client Sample ID: MW-10 CCR  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	230		400	620		mg/L		97	75 - 125

Lab Sample ID: 500-115612-4 MSD  
Matrix: Water  
Analysis Batch: 348702

Client Sample ID: MW-10 CCR  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	230		400	627		mg/L		99	75 - 125	1	20

Lab Sample ID: 500-115612-5 MS  
Matrix: Water  
Analysis Batch: 348702

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	150		400	560		mg/L		103	75 - 125

TestAmerica Chicago

MWG13-15\_58994  
8/24/2016

# QC Sample Results

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

TestAmerica Job ID: 500-115612-1

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

Lab Sample ID: 500-115612-5 MSD  
Matrix: Water  
Analysis Batch: 348702

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	150		400	564		mg/L		104	75 - 125	1	20

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
**TestAmerica Chicago**  
 2417 Bond St.  
 University Park, IL 60484  
 708-534-5200  
 Fax: 708-534-5211


**Report To:**

Contact: Richard Gnat  
 Company: KPRG and Associates, Inc  
 Address: 14665 W. Lisbon Rd., Suite 2B  
 Brookfield, WI 53005  
 Phone: 262-781-0475  
 Email: richardg@kprginc.com

**Bill To:**

Contact: Accounts Payable  
 Company: NRG Energy  
 Address: 112 Telly St  
 New Roads, LA 70760  
 Phone: 713 465-4113  
 Email: invoices@nrg.com  
 PO #: 4501569118

Lab Lot # **500-115612**  
 Package Sealed (Yes) No  
 Samples Sealed (Yes) No  
 Received on Ice (Yes) No  
 Samples Intact (Yes) No N/A  
 Temperature °C of Cooler  
 5.4 / 5.7

<b>Sampler Name:</b> Ian John Howleson		<b>Signature:</b>		<b># / Cont.</b>										<b>Within Hold Time</b> (Yes) No		<b>Preserv. Indicated</b> (Yes) No N/A	
<b>Project Name:</b> Quarterly Will County: CCR		<b>TestAmerica Project Number:</b> 50011609		<b>Volume</b>										<b>pH Check OK</b> (Yes) No		<b>Res CL<sub>2</sub> Check OK</b> (Yes) No N/A	
<b>Project Location:</b> Romeoville, IL		<b>TAT</b> 15 Days		<b>Preserv.</b>										<b>Sample Labels and COC Agree</b> (Yes) No		<b>COC not present</b>	
<b>Lab PM:</b> Eric Lang				<b>Matrix</b>		<b>Comp/Grab</b>											
<b>Laboratory ID</b>	<b>MS-MSD</b>	<b>Client Sample ID</b>	<b>Sampling Date</b>	<b>Time</b>											<b>Additional #</b>		 500-115612 COC
1		MW-05 CCR	8-10-16	14:14	W	6	X	X	X	X	X	X	X	X			
2		MW-06 CCR	8-11-16	08:28	W	1	X	X	X	X	X	X	X	X			
3		MW-09 CCR	8-9-16	16:39	W	1	X	X	X	X	X	X	X	X			
4		MW-10 CCR	8-10-16	12:17	W	1	X	X	X	X	X	X	X	X			
5		MW-11 CCR	8-10-16	11:11	W	1	X	X	X	X	X	X	X	X			
6		MW-12 CCR	8-10-16	10:06	W	1	X	X	X	X	X	X	X	X			
7		DUPLICATE	8-10-16		W	1	X	X	X	X	X	X	X	X			

<b>RELINQUISHED BY:</b> ISW	<b>COMPANY:</b> KPRG	<b>DATE:</b> 8-11-16	<b>TIME:</b> 16:25	<b>RECEIVED BY:</b> [Signature]	<b>COMPANY:</b> TA	<b>DATE:</b> 08/11/16	<b>TIME:</b> 1625
<b>RELINQUISHED BY:</b>	<b>COMPANY:</b>	<b>DATE:</b>	<b>TIME:</b>	<b>RECEIVED BY:</b>	<b>COMPANY:</b>	<b>DATE:</b>	<b>TIME:</b>

**Matrix Key**  
 WW = Wastewater SE = Sediment  
 W = Water SO = Solid  
 S = Soil DL = Drum Liquid  
 SL = Sludge DS = Drum Solid  
 MS = Miscellaneous L = Leachate  
 OL = Oil W = Wipe  
 A = Air O =

**Container Key**  
 1. Plastic  
 2. VOA Vial  
 3. Sterile Plastic  
 4. Amber Glass  
 5. Widemouth Glass  
 6. Other

**Preservative Key**  
 1. HCl, Cool to 4°  
 2. H<sub>2</sub>SO<sub>4</sub>, Cool to 4°  
 3. HNO<sub>3</sub>, Cool to 4°  
 4. NaOH, Cool to 4°  
 5. NaOH/Zn, Cool to 4°  
 6. Cool to 4°  
 7. None

**COMMENTS:**

Date Received 08/11/16  
 Courier:  
 Hand Delivered   
 Bill of Lading: 1 of 1

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## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-115612-1

**Login Number: 115612**  
**List Number: 1**  
**Creator: Sanchez, Ariel M**

**List Source: TestAmerica Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.4,5.7
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 $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Certification Summary

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

TestAmerica Job ID: 500-115612-1

## Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-17