

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: 500-128040-1
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:
5/24/2017 12:43:02 PM

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

MWG13-15_61955

Comp. Ex. 241L

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Case Narrative

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

TestAmerica Job ID: 500-128040-1

Job ID: 500-128040-1

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Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-128040-1

Comments

No additional comments.

Receipt

The samples were received on 5/11/2017 4:18 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.2° C.

Metals

Method(s) 6020A: The internal standard Terbium (Tb) was used to report the element Lead (Pb) and Thallium in batch 500-385728. This was due, to the LCS and ms/msd, 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: 500-128040-1

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: 500-128040-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-128040-1	MW-05 CCR	Water	05/11/17 11:05	05/11/17 16:18
500-128040-2	MW-06 CCR	Water	05/11/17 12:50	05/11/17 16:18
500-128040-3	MW-09 CCR	Water	05/09/17 15:43	05/11/17 16:18
500-128040-4	MW-10 CCR	Water	05/10/17 12:11	05/11/17 16:18
500-128040-5	MW-11 CCR	Water	05/10/17 10:51	05/11/17 16:18
500-128040-6	MW-12 CCR	Water	05/10/17 09:39	05/11/17 16:18
500-128040-7	DUPLICATE	Water	05/10/17 00:00	05/11/17 16:18

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Client Sample Results

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

TestAmerica Job ID: 500-128040-1

Client Sample ID: MW-05 CCR

Lab Sample ID: 500-128040-1

Date Collected: 05/11/17 11:05

Matrix: Water

Date Received: 05/11/17 16:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/16/17 07:36	05/18/17 03:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/17 07:36	05/17/17 16:45	1
Arsenic	0.0035		0.0010		mg/L		05/16/17 07:36	05/17/17 16:45	1
Barium	0.053		0.0025		mg/L		05/16/17 07:36	05/17/17 16:45	1
Beryllium	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 16:45	1
Boron	4.0		0.50		mg/L		05/16/17 07:36	05/18/17 11:23	10
Cadmium	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 16:45	1
Calcium	140		0.20		mg/L		05/16/17 07:36	05/17/17 16:45	1
Chromium	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 16:45	1
Cobalt	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 16:45	1
Lead	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 16:45	1
Molybdenum	0.093		0.0050		mg/L		05/16/17 07:36	05/17/17 16:45	1
Selenium	<0.0025		0.0025		mg/L		05/16/17 07:36	05/17/17 16:45	1
Thallium	<0.0020		0.0020		mg/L		05/16/17 07:36	05/17/17 16:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/17 13:00	05/17/17 09:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1200		10		mg/L			05/13/17 14:11	1
Chloride	85		10		mg/L			05/19/17 20:40	5
Fluoride	0.31		0.10		mg/L			05/18/17 20:10	1
Sulfate	610		100		mg/L			05/17/17 04:58	20

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Client Sample Results

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

TestAmerica Job ID: 500-128040-1

Client Sample ID: MW-06 CCR

Lab Sample ID: 500-128040-2

Date Collected: 05/11/17 12:50

Matrix: Water

Date Received: 05/11/17 16:18

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Method: 6010C - Metals (ICP) - Total Recoverable										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Lithium	0.011		0.010		mg/L		05/16/17 07:36	05/18/17 03:48	1	

Method: 6020A - Metals (ICP/MS) - Total Recoverable										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Antimony	<0.0030		0.0030		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Arsenic	0.0020		0.0010		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Barium	0.054		0.0025		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Beryllium	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Boron	3.0		0.25		mg/L		05/16/17 07:36	05/18/17 11:42	5	
Cadmium	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Calcium	75		0.20		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Chromium	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Cobalt	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Lead	0.00054		0.00050		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Molybdenum	0.054		0.0050		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Selenium	<0.0025		0.0025		mg/L		05/16/17 07:36	05/17/17 17:03	1	
Thallium	<0.0020		0.0020		mg/L		05/16/17 07:36	05/17/17 17:03	1	

Method: 7470A - Mercury (CVAA)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Mercury	<0.00020		0.00020		mg/L		05/16/17 13:00	05/17/17 09:34	1	

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total Dissolved Solids	570		10		mg/L			05/13/17 14:18	1	
Chloride	84		10		mg/L			05/19/17 20:41	5	
Fluoride	0.28		0.10		mg/L			05/18/17 20:13	1	
Sulfate	330		50		mg/L			05/17/17 04:59	10	

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Client Sample Results

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

TestAmerica Job ID: 500-128040-1

Client Sample ID: MW-09 CCR

Lab Sample ID: 500-128040-3

Date Collected: 05/09/17 15:43

Matrix: Water

Date Received: 05/11/17 16:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/16/17 07:36	05/18/17 03:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/17 07:36	05/17/17 17:15	1
Arsenic	0.0052		0.0010		mg/L		05/16/17 07:36	05/17/17 17:15	1
Barium	0.038		0.0025		mg/L		05/16/17 07:36	05/17/17 17:15	1
Beryllium	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:15	1
Boron	1.8		0.25		mg/L		05/16/17 07:36	05/18/17 11:46	5
Cadmium	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:15	1
Calcium	66		0.20		mg/L		05/16/17 07:36	05/17/17 17:15	1
Chromium	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 17:15	1
Cobalt	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:15	1
Lead	0.00054		0.00050		mg/L		05/16/17 07:36	05/17/17 17:15	1
Molybdenum	0.093		0.0050		mg/L		05/16/17 07:36	05/17/17 17:15	1
Selenium	<0.0025		0.0025		mg/L		05/16/17 07:36	05/17/17 17:15	1
Thallium	<0.0020		0.0020		mg/L		05/16/17 07:36	05/17/17 17:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/17 13:00	05/17/17 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	900		10		mg/L			05/13/17 14:21	1
Chloride	340		10		mg/L			05/19/17 20:42	5
Fluoride	0.38		0.10		mg/L			05/18/17 20:16	1
Sulfate	250		50		mg/L			05/17/17 05:02	10

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Client Sample Results

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

TestAmerica Job ID: 500-128040-1

Client Sample ID: MW-10 CCR

Lab Sample ID: 500-128040-4

Date Collected: 05/10/17 12:11

Matrix: Water

Date Received: 05/11/17 16:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.015		0.010		mg/L		05/16/17 07:36	05/18/17 04:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/17 07:36	05/17/17 17:18	1
Arsenic	0.020		0.0010		mg/L		05/16/17 07:36	05/17/17 17:18	1
Barium	0.11		0.0025		mg/L		05/16/17 07:36	05/17/17 17:18	1
Beryllium	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:18	1
Boron	3.0		0.25		mg/L		05/16/17 07:36	05/18/17 11:50	5
Cadmium	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:18	1
Calcium	150		0.20		mg/L		05/16/17 07:36	05/17/17 17:18	1
Chromium	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 17:18	1
Cobalt	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:18	1
Lead	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:18	1
Molybdenum	0.066		0.0050		mg/L		05/16/17 07:36	05/17/17 17:18	1
Selenium	<0.0025		0.0025		mg/L		05/16/17 07:36	05/17/17 17:18	1
Thallium	<0.0020		0.0020		mg/L		05/16/17 07:36	05/17/17 17:18	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/17 13:00	05/17/17 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	860		10		mg/L			05/13/17 14:24	1
Chloride	100		10		mg/L			05/19/17 20:43	5
Fluoride	0.44		0.10		mg/L			05/18/17 20:18	1
Sulfate	340		100		mg/L			05/17/17 05:05	20

Client Sample Results

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

TestAmerica Job ID: 500-128040-1

Client Sample ID: MW-11 CCR

Lab Sample ID: 500-128040-5

Date Collected: 05/10/17 10:51

Matrix: Water

Date Received: 05/11/17 16:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/16/17 07:36	05/18/17 04:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/17 07:36	05/17/17 17:22	1
Arsenic	0.014		0.0010		mg/L		05/16/17 07:36	05/17/17 17:22	1
Barium	0.14		0.0025		mg/L		05/16/17 07:36	05/17/17 17:22	1
Beryllium	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:22	1
Boron	3.1		0.25		mg/L		05/16/17 07:36	05/18/17 12:05	5
Cadmium	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:22	1
Calcium	95		0.20		mg/L		05/16/17 07:36	05/17/17 17:22	1
Chromium	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 17:22	1
Cobalt	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:22	1
Lead	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:22	1
Molybdenum	0.074		0.0050		mg/L		05/16/17 07:36	05/17/17 17:22	1
Selenium	<0.0025		0.0025		mg/L		05/16/17 07:36	05/17/17 17:22	1
Thallium	<0.0020		0.0020		mg/L		05/16/17 07:36	05/17/17 17:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/17 13:00	05/17/17 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	590		10		mg/L			05/13/17 14:26	1
Chloride	84		10		mg/L			05/19/17 20:45	5
Fluoride	0.46		0.10		mg/L			05/18/17 20:30	1
Sulfate	170		50		mg/L			05/17/17 05:07	10

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TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-128040-1

Client Sample ID: MW-12 CCR

Lab Sample ID: 500-128040-6

Date Collected: 05/10/17 09:39

Matrix: Water

Date Received: 05/11/17 16:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.010		mg/L		05/16/17 07:36	05/18/17 04:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/17 07:36	05/17/17 17:26	1
Arsenic	0.0013		0.0010		mg/L		05/16/17 07:36	05/17/17 17:26	1
Barium	0.13		0.0025		mg/L		05/16/17 07:36	05/17/17 17:26	1
Beryllium	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:26	1
Boron	2.3		0.25		mg/L		05/16/17 07:36	05/18/17 12:09	5
Cadmium	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:26	1
Calcium	200		0.20		mg/L		05/16/17 07:36	05/17/17 17:26	1
Chromium	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 17:26	1
Cobalt	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:26	1
Lead	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:26	1
Molybdenum	0.029		0.0050		mg/L		05/16/17 07:36	05/17/17 17:26	1
Selenium	0.017		0.0025		mg/L		05/16/17 07:36	05/17/17 17:26	1
Thallium	<0.0020		0.0020		mg/L		05/16/17 07:36	05/17/17 17:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/17 13:00	05/17/17 09:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	1300		10		mg/L			05/13/17 14:29	1
Chloride	240		10		mg/L			05/19/17 20:45	5
Fluoride	0.30		0.10		mg/L			05/18/17 20:32	1
Sulfate	260		100		mg/L			05/17/17 05:08	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-128040-1

Client Sample ID: DUPLICATE

Lab Sample ID: 500-128040-7

Date Collected: 05/10/17 00:00

Matrix: Water

Date Received: 05/11/17 16:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.014		0.010		mg/L		05/16/17 07:36	05/18/17 04:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/17 07:36	05/17/17 17:30	1
Arsenic	0.013		0.0010		mg/L		05/16/17 07:36	05/17/17 17:30	1
Barium	0.11		0.0025		mg/L		05/16/17 07:36	05/17/17 17:30	1
Beryllium	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:30	1
Boron	3.1		0.25		mg/L		05/16/17 07:36	05/18/17 12:12	5
Cadmium	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:30	1
Calcium	150		0.20		mg/L		05/16/17 07:36	05/17/17 17:30	1
Chromium	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 17:30	1
Cobalt	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 17:30	1
Lead	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 17:30	1
Molybdenum	0.065		0.0050		mg/L		05/16/17 07:36	05/17/17 17:30	1
Selenium	<0.0025		0.0025		mg/L		05/16/17 07:36	05/17/17 17:30	1
Thallium	<0.0020		0.0020		mg/L		05/16/17 07:36	05/17/17 17:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/17 13:00	05/17/17 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	960		10		mg/L			05/13/17 14:31	1
Chloride	100		10		mg/L			05/19/17 20:46	5
Fluoride	0.47		0.10		mg/L			05/18/17 20:35	1
Sulfate	280		100		mg/L			05/17/17 05:09	20

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TestAmerica Chicago

Definitions/Glossary

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

TestAmerica Job ID: 500-128040-1

Qualifiers

Metals

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

General Chemistry

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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QC Association Summary

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

TestAmerica Job ID: 500-128040-1

Metals

Prep Batch: 385316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total Recoverable	Water	3005A	
500-128040-2	MW-06 CCR	Total Recoverable	Water	3005A	
500-128040-3	MW-09 CCR	Total Recoverable	Water	3005A	
500-128040-4	MW-10 CCR	Total Recoverable	Water	3005A	
500-128040-5	MW-11 CCR	Total Recoverable	Water	3005A	
500-128040-6	MW-12 CCR	Total Recoverable	Water	3005A	
500-128040-7	DUPLICATE	Total Recoverable	Water	3005A	
MB 500-385316/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-385316/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-128040-1 MS	MW-05 CCR	Total Recoverable	Water	3005A	
500-128040-1 MSD	MW-05 CCR	Total Recoverable	Water	3005A	
500-128040-1 DU	MW-05 CCR	Total Recoverable	Water	3005A	

Prep Batch: 385379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total/NA	Water	7470A	
500-128040-2	MW-06 CCR	Total/NA	Water	7470A	
500-128040-3	MW-09 CCR	Total/NA	Water	7470A	
500-128040-4	MW-10 CCR	Total/NA	Water	7470A	
500-128040-5	MW-11 CCR	Total/NA	Water	7470A	
500-128040-6	MW-12 CCR	Total/NA	Water	7470A	
500-128040-7	DUPLICATE	Total/NA	Water	7470A	
MB 500-385379/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-385379/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 385553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total/NA	Water	7470A	385379
500-128040-2	MW-06 CCR	Total/NA	Water	7470A	385379
500-128040-3	MW-09 CCR	Total/NA	Water	7470A	385379
500-128040-4	MW-10 CCR	Total/NA	Water	7470A	385379
500-128040-5	MW-11 CCR	Total/NA	Water	7470A	385379
500-128040-6	MW-12 CCR	Total/NA	Water	7470A	385379
500-128040-7	DUPLICATE	Total/NA	Water	7470A	385379
MB 500-385379/12-A	Method Blank	Total/NA	Water	7470A	385379
LCS 500-385379/13-A	Lab Control Sample	Total/NA	Water	7470A	385379

Analysis Batch: 385701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total Recoverable	Water	6010C	385316
500-128040-2	MW-06 CCR	Total Recoverable	Water	6010C	385316
500-128040-3	MW-09 CCR	Total Recoverable	Water	6010C	385316
500-128040-4	MW-10 CCR	Total Recoverable	Water	6010C	385316
500-128040-5	MW-11 CCR	Total Recoverable	Water	6010C	385316
500-128040-6	MW-12 CCR	Total Recoverable	Water	6010C	385316
500-128040-7	DUPLICATE	Total Recoverable	Water	6010C	385316
MB 500-385316/1-A	Method Blank	Total Recoverable	Water	6010C	385316
LCS 500-385316/2-A	Lab Control Sample	Total Recoverable	Water	6010C	385316
500-128040-1 MS	MW-05 CCR	Total Recoverable	Water	6010C	385316
500-128040-1 MSD	MW-05 CCR	Total Recoverable	Water	6010C	385316
500-128040-1 DU	MW-05 CCR	Total Recoverable	Water	6010C	385316

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-128040-1

Analysis Batch: 385728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total Recoverable	Water	6020A	385316
500-128040-2	MW-06 CCR	Total Recoverable	Water	6020A	385316
500-128040-3	MW-09 CCR	Total Recoverable	Water	6020A	385316
500-128040-4	MW-10 CCR	Total Recoverable	Water	6020A	385316
500-128040-5	MW-11 CCR	Total Recoverable	Water	6020A	385316
500-128040-6	MW-12 CCR	Total Recoverable	Water	6020A	385316
500-128040-7	DUPLICATE	Total Recoverable	Water	6020A	385316
MB 500-385316/1-A	Method Blank	Total Recoverable	Water	6020A	385316
LCS 500-385316/2-A	Lab Control Sample	Total Recoverable	Water	6020A	385316
500-128040-1 MS	MW-05 CCR	Total Recoverable	Water	6020A	385316
500-128040-1 MSD	MW-05 CCR	Total Recoverable	Water	6020A	385316
500-128040-1 DU	MW-05 CCR	Total Recoverable	Water	6020A	385316

Analysis Batch: 385765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total Recoverable	Water	6020A	385316
500-128040-2	MW-06 CCR	Total Recoverable	Water	6020A	385316
500-128040-3	MW-09 CCR	Total Recoverable	Water	6020A	385316
500-128040-4	MW-10 CCR	Total Recoverable	Water	6020A	385316
500-128040-5	MW-11 CCR	Total Recoverable	Water	6020A	385316
500-128040-6	MW-12 CCR	Total Recoverable	Water	6020A	385316
500-128040-7	DUPLICATE	Total Recoverable	Water	6020A	385316
MB 500-385316/1-A	Method Blank	Total Recoverable	Water	6020A	385316
LCS 500-385316/2-A	Lab Control Sample	Total Recoverable	Water	6020A	385316
500-128040-1 MS	MW-05 CCR	Total Recoverable	Water	6020A	385316
500-128040-1 MSD	MW-05 CCR	Total Recoverable	Water	6020A	385316
500-128040-1 DU	MW-05 CCR	Total Recoverable	Water	6020A	385316

General Chemistry

Analysis Batch: 385074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total/NA	Water	SM 2540C	
500-128040-2	MW-06 CCR	Total/NA	Water	SM 2540C	
500-128040-3	MW-09 CCR	Total/NA	Water	SM 2540C	
500-128040-4	MW-10 CCR	Total/NA	Water	SM 2540C	
500-128040-5	MW-11 CCR	Total/NA	Water	SM 2540C	
500-128040-6	MW-12 CCR	Total/NA	Water	SM 2540C	
500-128040-7	DUPLICATE	Total/NA	Water	SM 2540C	
MB 500-385074/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-385074/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-128040-1 MS	MW-05 CCR	Total/NA	Water	SM 2540C	
500-128040-1 DU	MW-05 CCR	Total/NA	Water	SM 2540C	

Analysis Batch: 385466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total/NA	Water	SM 4500 SO4 E	
500-128040-2	MW-06 CCR	Total/NA	Water	SM 4500 SO4 E	
500-128040-3	MW-09 CCR	Total/NA	Water	SM 4500 SO4 E	
500-128040-4	MW-10 CCR	Total/NA	Water	SM 4500 SO4 E	
500-128040-5	MW-11 CCR	Total/NA	Water	SM 4500 SO4 E	
500-128040-6	MW-12 CCR	Total/NA	Water	SM 4500 SO4 E	
500-128040-7	DUPLICATE	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Chicago

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QC Association Summary

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

TestAmerica Job ID: 500-128040-1

General Chemistry (Continued)

Analysis Batch: 385466 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-385466/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 500-385466/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
500-128040-3 MS	MW-09 CCR	Total/NA	Water	SM 4500 SO4 E	
500-128040-3 MSD	MW-09 CCR	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 385934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total/NA	Water	SM 4500 F C	
500-128040-2	MW-06 CCR	Total/NA	Water	SM 4500 F C	
500-128040-3	MW-09 CCR	Total/NA	Water	SM 4500 F C	
500-128040-4	MW-10 CCR	Total/NA	Water	SM 4500 F C	
500-128040-5	MW-11 CCR	Total/NA	Water	SM 4500 F C	
500-128040-6	MW-12 CCR	Total/NA	Water	SM 4500 F C	
500-128040-7	DUPLICATE	Total/NA	Water	SM 4500 F C	
MB 500-385934/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-385934/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

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Analysis Batch: 386082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128040-1	MW-05 CCR	Total/NA	Water	SM 4500 Cl- E	
500-128040-2	MW-06 CCR	Total/NA	Water	SM 4500 Cl- E	
500-128040-3	MW-09 CCR	Total/NA	Water	SM 4500 Cl- E	
500-128040-4	MW-10 CCR	Total/NA	Water	SM 4500 Cl- E	
500-128040-5	MW-11 CCR	Total/NA	Water	SM 4500 Cl- E	
500-128040-6	MW-12 CCR	Total/NA	Water	SM 4500 Cl- E	
500-128040-7	DUPLICATE	Total/NA	Water	SM 4500 Cl- E	
MB 500-386082/12	Method Blank	Total/NA	Water	SM 4500 Cl- E	
LCS 500-386082/13	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
500-128040-2 MS	MW-06 CCR	Total/NA	Water	SM 4500 Cl- E	
500-128040-2 MSD	MW-06 CCR	Total/NA	Water	SM 4500 Cl- E	

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-128040-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-385316/1-A
Matrix: Water
Analysis Batch: 385701

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 385316

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.010		0.010		mg/L		05/16/17 07:36	05/18/17 03:21	1

Lab Sample ID: LCS 500-385316/2-A
Matrix: Water
Analysis Batch: 385701

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 385316

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

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Lab Sample ID: 500-128040-1 MS
Matrix: Water
Analysis Batch: 385701

Client Sample ID: MW-05 CCR
Prep Type: Total Recoverable
Prep Batch: 385316

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lithium	<0.010		0.500	0.540		mg/L		107	75 - 125

Lab Sample ID: 500-128040-1 MSD
Matrix: Water
Analysis Batch: 385701

Client Sample ID: MW-05 CCR
Prep Type: Total Recoverable
Prep Batch: 385316

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lithium	<0.010		0.500	0.535		mg/L		106	75 - 125	1	20

Lab Sample ID: 500-128040-1 DU
Matrix: Water
Analysis Batch: 385701

Client Sample ID: MW-05 CCR
Prep Type: Total Recoverable
Prep Batch: 385316

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 500-385316/1-A
Matrix: Water
Analysis Batch: 385728

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 385316

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/16/17 07:36	05/17/17 16:37	1
Arsenic	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 16:37	1
Barium	<0.0025		0.0025		mg/L		05/16/17 07:36	05/17/17 16:37	1
Beryllium	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 16:37	1
Cadmium	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 16:37	1
Calcium	<0.20		0.20		mg/L		05/16/17 07:36	05/17/17 16:37	1
Chromium	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 16:37	1
Cobalt	<0.0010		0.0010		mg/L		05/16/17 07:36	05/17/17 16:37	1
Lead	<0.00050		0.00050		mg/L		05/16/17 07:36	05/17/17 16:37	1
Molybdenum	<0.0050		0.0050		mg/L		05/16/17 07:36	05/17/17 16:37	1
Selenium	<0.0025		0.0025		mg/L		05/16/17 07:36	05/17/17 16:37	1
Thallium	<0.0020		0.0020		mg/L		05/16/17 07:36	05/17/17 16:37	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-128040-1

Lab Sample ID: MB 500-385316/1-A
Matrix: Water
Analysis Batch: 385765

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 385316

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		05/16/17 07:36	05/18/17 11:15	1

Lab Sample ID: LCS 500-385316/2-A
Matrix: Water
Analysis Batch: 385728

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 385316

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0995		mg/L		100	80 - 120
Barium	2.00	2.07		mg/L		103	80 - 120
Beryllium	0.0500	0.0505		mg/L		101	80 - 120
Cadmium	0.0500	0.0524		mg/L		105	80 - 120
Calcium	10.0	10.4		mg/L		104	80 - 120
Chromium	0.200	0.205		mg/L		102	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Lead	0.100	0.106		mg/L		106	80 - 120
Molybdenum	1.00	0.983		mg/L		98	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Thallium	0.100	0.106		mg/L		106	80 - 120

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Lab Sample ID: LCS 500-385316/2-A
Matrix: Water
Analysis Batch: 385765

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 385316

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

Lab Sample ID: 500-128040-1 MS
Matrix: Water
Analysis Batch: 385728

Client Sample ID: MW-05 CCR
Prep Type: Total Recoverable
Prep Batch: 385316

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.0035		0.100	0.107		mg/L		103	75 - 125
Barium	0.053		2.00	2.12		mg/L		103	75 - 125
Beryllium	<0.0010		0.0500	0.0455		mg/L		91	75 - 125
Cadmium	<0.00050		0.0500	0.0502		mg/L		100	75 - 125
Calcium	140		10.0	141	4	mg/L		42	75 - 125
Chromium	<0.0050		0.200	0.195		mg/L		97	75 - 125
Cobalt	<0.0010		0.500	0.486		mg/L		97	75 - 125
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125
Molybdenum	0.093		1.00	1.00		mg/L		91	75 - 125
Selenium	<0.0025		0.100	0.108		mg/L		106	75 - 125
Thallium	<0.0020		0.100	0.103		mg/L		103	75 - 125

Lab Sample ID: 500-128040-1 MS
Matrix: Water
Analysis Batch: 385765

Client Sample ID: MW-05 CCR
Prep Type: Total Recoverable
Prep Batch: 385316

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

TestAmerica Chicago

MWG13-15_61972
5/24/2017

QC Sample Results

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

TestAmerica Job ID: 500-128040-1

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

Lab Sample ID: 500-128040-1 MSD Matrix: Water Analysis Batch: 385728							Client Sample ID: MW-05 CCR Prep Type: Total Recoverable Prep Batch: 385316				
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Antimony	<0.0030		0.500	0.522		mg/L		104	75 - 125	0	20
Arsenic	0.0035		0.100	0.107		mg/L		103	75 - 125	0	20
Barium	0.053		2.00	2.10		mg/L		102	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0469		mg/L		94	75 - 125	3	20
Cadmium	<0.00050		0.0500	0.0511		mg/L		102	75 - 125	2	20
Calcium	140		10.0	136	4	mg/L		-3	75 - 125	3	20
Chromium	<0.0050		0.200	0.192		mg/L		96	75 - 125	1	20
Cobalt	<0.0010		0.500	0.477		mg/L		95	75 - 125	2	20
Lead	<0.00050		0.100	0.100		mg/L		100	75 - 125	2	20
Molybdenum	0.093		1.00	1.00		mg/L		91	75 - 125	0	20
Selenium	<0.0025		0.100	0.108		mg/L		106	75 - 125	0	20
Thallium	<0.0020		0.100	0.100		mg/L		100	75 - 125	2	20

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Lab Sample ID: 500-128040-1 MSD Matrix: Water Analysis Batch: 385765							Client Sample ID: MW-05 CCR Prep Type: Total Recoverable Prep Batch: 385316				
Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Boron	4.0		1.00	4.79	4	mg/L		78	75 - 125	3	20

Lab Sample ID: 500-128040-1 DU Matrix: Water Analysis Batch: 385728							Client Sample ID: MW-05 CCR Prep Type: Total Recoverable Prep Batch: 385316				
Analyte	Sample	Sample	DU		Unit	D	RPD	Limit			
	Result	Qualifier	Result	Qualifier							
Antimony	<0.0030		<0.0030		mg/L		NC	20			
Arsenic	0.0035		0.00341		mg/L		2	20			
Barium	0.053		0.0519		mg/L		3	20			
Beryllium	<0.0010		<0.0010		mg/L		NC	20			
Cadmium	<0.00050		<0.00050		mg/L		NC	20			
Calcium	140		132		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	0.093		0.0874		mg/L		6	20			
Selenium	<0.0025		<0.0025		mg/L		NC	20			
Thallium	<0.0020		<0.0020		mg/L		NC	20			

Lab Sample ID: 500-128040-1 DU Matrix: Water Analysis Batch: 385765							Client Sample ID: MW-05 CCR Prep Type: Total Recoverable Prep Batch: 385316				
Analyte	Sample	Sample	DU		Unit	D	RPD	Limit			
	Result	Qualifier	Result	Qualifier							
Boron	4.0		3.90		mg/L		3	20			

TestAmerica Chicago

MWG13-15_61973
5/24/2017

QC Sample Results

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

TestAmerica Job ID: 500-128040-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-385379/12-A
Matrix: Water
Analysis Batch: 385553

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 385379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/16/17 13:00	05/17/17 09:29	1

Lab Sample ID: LCS 500-385379/13-A
Matrix: Water
Analysis Batch: 385553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 385379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00206		mg/L		103	80 - 120

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

Lab Sample ID: MB 500-385074/1
Matrix: Water
Analysis Batch: 385074

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/13/17 14:06	1

Lab Sample ID: LCS 500-385074/2
Matrix: Water
Analysis Batch: 385074

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	250	288		mg/L		115	80 - 120

Lab Sample ID: 500-128040-1 MS
Matrix: Water
Analysis Batch: 385074

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Dissolved Solids	1200		250	1460	4	mg/L		118	75 - 125

Lab Sample ID: 500-128040-1 DU
Matrix: Water
Analysis Batch: 385074

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1130		mg/L		3	5

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 500-386082/12
Matrix: Water
Analysis Batch: 386082

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<2.0		2.0		mg/L			05/19/17 19:45	1

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QC Sample Results

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

TestAmerica Job ID: 500-128040-1

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

Lab Sample ID: LCS 500-386082/13 Matrix: Water Analysis Batch: 386082				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	52.2		mg/L		104	80 - 120		

Lab Sample ID: 500-128040-2 MS Matrix: Water Analysis Batch: 386082				Client Sample ID: MW-06 CCR Prep Type: Total/NA					
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	84		50.0	131		mg/L		94	75 - 125

Lab Sample ID: 500-128040-2 MSD Matrix: Water Analysis Batch: 386082				Client Sample ID: MW-06 CCR Prep Type: Total/NA							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	84		50.0	132		mg/L		95	75 - 125	0	20

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Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-385934/3 Matrix: Water Analysis Batch: 385934				Client Sample ID: Method Blank Prep Type: Total/NA					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			05/18/17 19:12	1

Lab Sample ID: LCS 500-385934/4 Matrix: Water Analysis Batch: 385934				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		

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 500-385466/3 Matrix: Water Analysis Batch: 385466				Client Sample ID: Method Blank Prep Type: Total/NA					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<5.0		5.0		mg/L			05/17/17 04:51	1

Lab Sample ID: LCS 500-385466/4 Matrix: Water Analysis Batch: 385466				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	20.2		mg/L		101	80 - 120		

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MWG13-15_61975
5/24/2017

QC Sample Results

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

TestAmerica Job ID: 500-128040-1

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

Lab Sample ID: 500-128040-3 MS
Matrix: Water
Analysis Batch: 385466

Client Sample ID: MW-09 CCR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	250		400	658		mg/L		102	75 - 125

Lab Sample ID: 500-128040-3 MSD
Matrix: Water
Analysis Batch: 385466

Client Sample ID: MW-09 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	250		400	673		mg/L		106	75 - 125	2	20

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



500-128040 COC

Report To:

Contact: Richard Gnat
 Company: KPRG and Associates, Inc
 Address: 14865 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 # 500-128040

Package Sealed: Yes No
 Samples Sealed: Yes No
 Received on Ice: Yes No
 Samples Intact: Yes No N/A
 Temperature °C of Cooler: 3.2, 2.7

Sampler Name: Ian John Howieson		Signature:		# / Cont.	Volume							Within Hold Time	Preserv. Indicated			
Project Name: Quarterly Will County: CCR		TestAmerica Project Number: 50011609		Preserv.								Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Project Location: Romeoville, IL		TAT 15 Days		Matrix	Compl/Grab	903.0, 904.0 Radium 226/228	6010C, 6020A, 7470A - Total Metals	2540C - TDS	4500_F_C - Fluoride	SM4500_Cl_E Chloride	SM4500_S04_E - Sulfate	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Lab PM: Eric Lang												Sample Labels and COC Agree Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> COC not present				
Laboratory ID	MSD	Client Sample ID	Sampling Date	Time								Additional Analyses / Remarks				
1		MW-05 CCR	5-11-17	11:05	W	5	X	X	X	X	X					
2		MW-06 CCR	5-11-17	12:50	W	5	X	X	X	X	X					
3		MW-09 CCR	5-9-17	5:43	W	5	X	X	X	X	X					
4		MW-10 CCR	5-10-17	12:11	W	5	X	X	X	X	X					
5		MW-11 CCR	5-10-17	10:51	W	5	X	X	X	X	X					
6		MW-12 CCR	5-10-17	09:39	W	5	X	X	X	X	X					
7		DUPLICATE	5-10-17		W	5	X	X	X	X	X					

RELINQUISHED BY: <u>ISA</u>	COMPANY: <u>KPRG</u>	DATE: <u>5-11-17</u>	TIME: <u>16:18</u>	RECEIVED BY: <u>Sherrill Scotts</u>	COMPANY: <u>NRG-CHT</u>	DATE: <u>5/11/17</u>	TIME: <u>16:18</u>
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

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. H₂SO₄, Cool to 4°
 3. HNO₃, Cool to 4°
 4. NaOH, Cool to 4°
 5. NaOH/Zn, Cool to 4°
 6. Cool to 4°
 7. None

COMMENTS:

Date Received: 5/11/17
 Courier:
 Hand Delivered
 Bill of Lading: 2 of 2

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-128040-1

Login Number: 128040
List Number: 1
Creator: Scott, Sherri L

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	3,2,2.7
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Accreditation/Certification Summary

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

TestAmerica Job ID: 500-128040-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Illinois	NELAP	5	100201	04-30-18

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