

# 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: 500-116089-1  
Client Project/Site: Waukegan Station CCA

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

Attn: Richard Gnat



*Authorized for release by:*  
9/13/2016 11:37:29 AM

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

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[www.testamericainc.com](http://www.testamericainc.com)

*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: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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**Job ID: 500-116089-1**

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**Laboratory: TestAmerica Chicago**

**Narrative**

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**Job Narrative**  
**500-116089-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 8/24/2016 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.7° C, 3.2° C, 3.3° C, 5.3° C and 5.9° C.

**GC/MS VOA**

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

**Metals**

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

**Field Service / Mobile Lab**

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.

## Detection Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

**Client Sample ID: ELUC MW-15**

**Lab Sample ID: 500-116089-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0088		0.0010		mg/L	1		6020A	Dissolved
Barium	0.10		0.0025		mg/L	1		6020A	Dissolved
Boron	8.0		1.0		mg/L	20		6020A	Dissolved
Cobalt	0.0013		0.0010		mg/L	1		6020A	Dissolved
Iron	12		0.10		mg/L	1		6020A	Dissolved
Manganese	0.47		0.0025		mg/L	1		6020A	Dissolved
Sulfate	330		50		mg/L	10		9038	Dissolved
Chloride	93		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.27		0.10		mg/L	1		SM 4500 F C	Dissolved

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

**Lab Sample ID: 500-116089-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0017		0.0010		mg/L	1		6020A	Dissolved
Barium	0.098		0.0025		mg/L	1		6020A	Dissolved
Boron	4.9		1.0		mg/L	20		6020A	Dissolved
Cadmium	0.0011		0.00050		mg/L	1		6020A	Dissolved
Cobalt	0.0044		0.0010		mg/L	1		6020A	Dissolved
Iron	3.5		0.10		mg/L	1		6020A	Dissolved
Manganese	0.32		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.011		0.0020		mg/L	1		6020A	Dissolved
Zinc	0.10		0.020		mg/L	1		6020A	Dissolved
Sulfate	170		50		mg/L	10		9038	Dissolved
Chloride	180		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	820		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.12		0.10		mg/L	1		SM 4500 F C	Dissolved

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

**Lab Sample ID: 500-116089-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.35		0.0010		mg/L	1		6020A	Dissolved
Barium	0.067		0.0025		mg/L	1		6020A	Dissolved
Boron	0.96		0.25		mg/L	5		6020A	Dissolved
Iron	7.3		0.10		mg/L	1		6020A	Dissolved
Manganese	0.19		0.0025		mg/L	1		6020A	Dissolved
Sulfate	130		50		mg/L	10		9038	Dissolved
Chloride	110		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	930		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.17		0.10		mg/L	1		SM 4500 F C	Dissolved

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

**Lab Sample ID: 500-116089-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.89		0.0010		mg/L	1		6020A	Dissolved
Barium	0.042		0.0025		mg/L	1		6020A	Dissolved
Boron	3.0		0.50		mg/L	10		6020A	Dissolved
Iron	3.6		0.10		mg/L	1		6020A	Dissolved
Manganese	0.28		0.0025		mg/L	1		6020A	Dissolved
Sulfate	100		20		mg/L	4		9038	Dissolved

This Detection Summary does not include radiochemical test results.

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## Detection Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### Client Sample ID: ELUC MW-11 (Continued)

Lab Sample ID: 500-116089-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	210		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.14		0.10		mg/L	1		SM 4500 F C	Dissolved

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### Client Sample ID: ELUC MW-14

Lab Sample ID: 500-116089-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.71		0.0010		mg/L	1		6020A	Dissolved
Barium	0.051		0.0025		mg/L	1		6020A	Dissolved
Boron	1.3		0.50		mg/L	10		6020A	Dissolved
Chromium	0.0060		0.0050		mg/L	1		6020A	Dissolved
Iron	4.7		0.10		mg/L	1		6020A	Dissolved
Manganese	0.13		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.0084		0.0020		mg/L	1		6020A	Dissolved
Sulfate	180		50		mg/L	10		9038	Dissolved
Chloride	180		10		mg/L	5		9251	Dissolved
Total Dissolved Solids	1100		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.15		0.10		mg/L	1		SM 4500 F C	Dissolved

This Detection Summary does not include radiochemical test results.

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## Method Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
314.0	Perchlorate (IC)	EPA	TAL SAC
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9038	Sulfate, Turbidimetric	SW846	TAL CHI
9251	Chloride	SW846	TAL CHI
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL CHI
SM 4500 F C	Fluoride	SM	TAL CHI
SM 4500 NO2 B	Nitrogen, Nitrite	SM	TAL CHI
SM 4500 NO3 F	Nitrogen, Nitrate	SM	TAL CHI

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### Protocol References:

EPA = US Environmental Protection Agency

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

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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# Sample Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-116089-1	ELUC MW-15	Water	08/23/16 12:38	08/24/16 10:15
500-116089-2	ELUC MW-12	Water	08/25/16 16:04	08/26/16 10:25
500-116089-3	ELUC MW-10	Water	08/26/16 10:12	08/26/16 17:55
500-116089-4	ELUC MW-11	Water	08/26/16 13:18	08/26/16 17:55
500-116089-5	ELUC MW-14	Water	08/26/16 11:34	08/26/16 17:55

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## Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

**Client Sample ID: ELUC MW-15**

**Lab Sample ID: 500-116089-1**

Date Collected: 08/23/16 12:38

Matrix: Water

Date Received: 08/24/16 10:15

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			09/01/16 22:07	1
Toluene	<0.00050		0.00050		mg/L			09/01/16 22:07	1
Ethylbenzene	<0.00050		0.00050		mg/L			09/01/16 22:07	1
Xylenes, Total	<0.0010		0.0010		mg/L			09/01/16 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		71 - 127		09/01/16 22:07	1
Toluene-d8 (Surr)	96		75 - 120		09/01/16 22:07	1
4-Bromofluorobenzene (Surr)	99		71 - 120		09/01/16 22:07	1
Dibromofluoromethane	95		70 - 120		09/01/16 22:07	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			09/10/16 00:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/31/16 11:17	08/31/16 12:22	1
Arsenic	0.0088		0.0010		mg/L		08/31/16 11:17	08/31/16 12:22	1
Barium	0.10		0.0025		mg/L		08/31/16 11:17	08/31/16 12:22	1
Beryllium	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 12:22	1
Boron	8.0		1.0		mg/L		08/31/16 11:17	09/01/16 15:38	20
Cadmium	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:22	1
Chromium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:22	1
Cobalt	0.0013		0.0010		mg/L		08/31/16 11:17	08/31/16 12:22	1
Copper	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 19:38	1
Iron	12		0.10		mg/L		08/31/16 11:17	08/31/16 12:22	1
Lead	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:22	1
Manganese	0.47		0.0025		mg/L		08/31/16 11:17	08/31/16 12:22	1
Nickel	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 12:22	1
Selenium	<0.0025		0.0025		mg/L		08/31/16 11:17	08/31/16 12:22	1
Silver	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:22	1
Thallium	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 12:22	1
Vanadium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:22	1
Zinc	<0.020		0.020		mg/L		08/31/16 11:17	08/31/16 12:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/16 13:30	08/30/16 12:47	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		08/30/16 13:45	08/30/16 20:11	1
Sulfate	330		50		mg/L			09/06/16 06:46	10
Chloride	93		10		mg/L			09/01/16 23:06	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			09/08/16 16:38	1
Total Dissolved Solids	1100		10		mg/L			08/29/16 15:05	1
Fluoride	0.27		0.10		mg/L			08/29/16 15:09	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			08/24/16 14:00	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			09/04/16 21:48	1

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## Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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

**Lab Sample ID: 500-116089-2**

Date Collected: 08/25/16 16:04

Matrix: Water

Date Received: 08/26/16 10:25

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**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			09/01/16 22:33	1
Toluene	<0.00050		0.00050		mg/L			09/01/16 22:33	1
Ethylbenzene	<0.00050		0.00050		mg/L			09/01/16 22:33	1
Xylenes, Total	<0.0010		0.0010		mg/L			09/01/16 22:33	1

**Surrogate**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		71 - 127		09/01/16 22:33	1
Toluene-d8 (Surr)	95		75 - 120		09/01/16 22:33	1
4-Bromofluorobenzene (Surr)	96		71 - 120		09/01/16 22:33	1
Dibromofluoromethane	97		70 - 120		09/01/16 22:33	1

**Method: 314.0 - Perchlorate (IC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			09/10/16 00:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/31/16 11:17	08/31/16 12:26	1
Arsenic	0.0017		0.0010		mg/L		08/31/16 11:17	08/31/16 12:26	1
Barium	0.098		0.0025		mg/L		08/31/16 11:17	08/31/16 12:26	1
Beryllium	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 12:26	1
Boron	4.9		1.0		mg/L		08/31/16 11:17	09/01/16 15:56	20
Cadmium	0.0011		0.00050		mg/L		08/31/16 11:17	08/31/16 12:26	1
Chromium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:26	1
Cobalt	0.0044		0.0010		mg/L		08/31/16 11:17	08/31/16 12:26	1
Copper	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 19:41	1
Iron	3.5		0.10		mg/L		08/31/16 11:17	08/31/16 12:26	1
Lead	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:26	1
Manganese	0.32		0.0025		mg/L		08/31/16 11:17	08/31/16 12:26	1
Nickel	0.011		0.0020		mg/L		08/31/16 11:17	08/31/16 12:26	1
Selenium	<0.0025		0.0025		mg/L		08/31/16 11:17	08/31/16 12:26	1
Silver	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:26	1
Thallium	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 12:26	1
Vanadium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:26	1
Zinc	0.10		0.020		mg/L		08/31/16 11:17	08/31/16 12:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/16 13:30	08/30/16 12:53	1

**General Chemistry - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		08/30/16 13:45	08/30/16 20:11	1
Sulfate	170		50		mg/L			09/06/16 06:47	10
Chloride	180		10		mg/L			09/01/16 22:32	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			09/08/16 16:38	1
Total Dissolved Solids	820		10		mg/L			08/29/16 17:12	1
Fluoride	0.12		0.10		mg/L			08/29/16 15:11	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			08/26/16 15:37	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			09/04/16 21:48	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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

**Lab Sample ID: 500-116089-3**

Date Collected: 08/26/16 10:12

Matrix: Water

Date Received: 08/26/16 17:55

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			09/01/16 22:59	1
Toluene	<0.00050		0.00050		mg/L			09/01/16 22:59	1
Ethylbenzene	<0.00050		0.00050		mg/L			09/01/16 22:59	1
Xylenes, Total	<0.0010		0.0010		mg/L			09/01/16 22:59	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		71 - 127					09/01/16 22:59	1
Toluene-d8 (Surr)	98		75 - 120					09/01/16 22:59	1
4-Bromofluorobenzene (Surr)	99		71 - 120					09/01/16 22:59	1
Dibromofluoromethane	96		70 - 120					09/01/16 22:59	1

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**Method: 314.0 - Perchlorate (IC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			09/10/16 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/31/16 11:17	08/31/16 12:30	1
Arsenic	0.35		0.0010		mg/L		08/31/16 11:17	08/31/16 12:30	1
Barium	0.067		0.0025		mg/L		08/31/16 11:17	08/31/16 12:30	1
Beryllium	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 12:30	1
Boron	0.96		0.25		mg/L		08/31/16 11:17	09/01/16 16:00	5
Cadmium	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:30	1
Chromium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:30	1
Cobalt	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 12:30	1
Copper	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 19:55	1
Iron	7.3		0.10		mg/L		08/31/16 11:17	08/31/16 12:30	1
Lead	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:30	1
Manganese	0.19		0.0025		mg/L		08/31/16 11:17	08/31/16 12:30	1
Nickel	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 12:30	1
Selenium	<0.0025		0.0025		mg/L		08/31/16 11:17	08/31/16 12:30	1
Silver	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:30	1
Thallium	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 12:30	1
Vanadium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:30	1
Zinc	<0.020		0.020		mg/L		08/31/16 11:17	08/31/16 12:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/16 13:30	08/30/16 12:55	1

**General Chemistry - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		08/30/16 13:45	08/30/16 20:11	1
Sulfate	130		50		mg/L			09/06/16 06:50	10
Chloride	110		10		mg/L			09/01/16 22:36	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			09/08/16 16:38	1
Total Dissolved Solids	930		10		mg/L			08/29/16 18:16	1
Fluoride	0.17		0.10		mg/L			08/29/16 15:14	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			08/27/16 18:22	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			09/04/16 21:51	1

TestAmerica Chicago

## Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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

**Lab Sample ID: 500-116089-4**

Date Collected: 08/26/16 13:18

Matrix: Water

Date Received: 08/26/16 17:55

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			08/31/16 02:51	1
Toluene	<0.00050		0.00050		mg/L			08/31/16 02:51	1
Ethylbenzene	<0.00050		0.00050		mg/L			08/31/16 02:51	1
Xylenes, Total	<0.0010		0.0010		mg/L			08/31/16 02:51	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		71 - 127					08/31/16 02:51	1
Toluene-d8 (Surr)	98		75 - 120					08/31/16 02:51	1
4-Bromofluorobenzene (Surr)	104		71 - 120					08/31/16 02:51	1
Dibromofluoromethane	94		70 - 120					08/31/16 02:51	1

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**Method: 314.0 - Perchlorate (IC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			09/10/16 01:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/31/16 11:17	08/31/16 12:33	1
<b>Arsenic</b>	<b>0.89</b>		0.0010		mg/L		08/31/16 11:17	08/31/16 12:33	1
<b>Barium</b>	<b>0.042</b>		0.0025		mg/L		08/31/16 11:17	08/31/16 12:33	1
Beryllium	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 12:33	1
<b>Boron</b>	<b>3.0</b>		0.50		mg/L		08/31/16 11:17	09/01/16 16:04	10
Cadmium	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:33	1
Chromium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:33	1
Cobalt	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 12:33	1
Copper	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 19:59	1
<b>Iron</b>	<b>3.6</b>		0.10		mg/L		08/31/16 11:17	08/31/16 12:33	1
Lead	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:33	1
<b>Manganese</b>	<b>0.28</b>		0.0025		mg/L		08/31/16 11:17	08/31/16 12:33	1
Nickel	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 12:33	1
Selenium	<0.0025		0.0025		mg/L		08/31/16 11:17	08/31/16 12:33	1
Silver	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:33	1
Thallium	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 12:33	1
Vanadium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:33	1
Zinc	<0.020		0.020		mg/L		08/31/16 11:17	08/31/16 12:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/16 13:30	08/30/16 12:59	1

**General Chemistry - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		08/30/16 13:45	08/30/16 20:12	1
<b>Sulfate</b>	<b>100</b>		20		mg/L			09/06/16 06:53	4
<b>Chloride</b>	<b>210</b>		10		mg/L			09/01/16 22:36	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			09/08/16 16:38	1
<b>Total Dissolved Solids</b>	<b>1000</b>		10		mg/L			08/29/16 19:19	1
<b>Fluoride</b>	<b>0.14</b>		0.10		mg/L			08/29/16 15:17	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			08/27/16 18:23	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			09/04/16 21:52	1

TestAmerica Chicago

# Client Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

**Client Sample ID: ELUC MW-14**

**Lab Sample ID: 500-116089-5**

Date Collected: 08/26/16 11:34

Matrix: Water

Date Received: 08/26/16 17:55

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.00050		mg/L			08/31/16 03:18	1
Toluene	<0.00050		0.00050		mg/L			08/31/16 03:18	1
Ethylbenzene	<0.00050		0.00050		mg/L			08/31/16 03:18	1
Xylenes, Total	<0.0010		0.0010		mg/L			08/31/16 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		71 - 127		08/31/16 03:18	1
Toluene-d8 (Surr)	100		75 - 120		08/31/16 03:18	1
4-Bromofluorobenzene (Surr)	104		71 - 120		08/31/16 03:18	1
Dibromofluoromethane	94		70 - 120		08/31/16 03:18	1

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**Method: 314.0 - Perchlorate (IC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			09/10/16 01:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		08/31/16 11:17	08/31/16 12:37	1
Arsenic	0.71		0.0010		mg/L		08/31/16 11:17	08/31/16 12:37	1
Barium	0.051		0.0025		mg/L		08/31/16 11:17	08/31/16 12:37	1
Beryllium	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 12:37	1
Boron	1.3		0.50		mg/L		08/31/16 11:17	09/01/16 16:07	10
Cadmium	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:37	1
Chromium	0.0060		0.0050		mg/L		08/31/16 11:17	08/31/16 12:37	1
Cobalt	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 12:37	1
Copper	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 20:02	1
Iron	4.7		0.10		mg/L		08/31/16 11:17	08/31/16 12:37	1
Lead	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:37	1
Manganese	0.13		0.0025		mg/L		08/31/16 11:17	08/31/16 12:37	1
Nickel	0.0084		0.0020		mg/L		08/31/16 11:17	08/31/16 12:37	1
Selenium	<0.0025		0.0025		mg/L		08/31/16 11:17	08/31/16 12:37	1
Silver	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 12:37	1
Thallium	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 12:37	1
Vanadium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 12:37	1
Zinc	<0.020		0.020		mg/L		08/31/16 11:17	08/31/16 12:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/16 13:30	08/30/16 13:01	1

**General Chemistry - Dissolved**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		08/30/16 13:45	08/30/16 20:12	1
Sulfate	180		50		mg/L			09/06/16 06:54	10
Chloride	180		10		mg/L			09/01/16 23:07	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			09/08/16 16:38	1
Total Dissolved Solids	1100		10		mg/L			08/29/16 20:23	1
Fluoride	0.15		0.10		mg/L			08/29/16 15:29	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			08/27/16 18:23	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			09/04/16 21:53	1

TestAmerica Chicago

## Definitions/Glossary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### 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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TestAmerica Chicago

## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### GC/MS VOA

#### Analysis Batch: 349920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-4	ELUC MW-11	Total/NA	Water	8260B	
500-116089-5	ELUC MW-14	Total/NA	Water	8260B	
MB 500-349920/6	Method Blank	Total/NA	Water	8260B	
LCS 500-349920/4	Lab Control Sample	Total/NA	Water	8260B	

#### Analysis Batch: 350240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Total/NA	Water	8260B	
500-116089-2	ELUC MW-12	Total/NA	Water	8260B	
500-116089-3	ELUC MW-10	Total/NA	Water	8260B	
MB 500-350240/7	Method Blank	Total/NA	Water	8260B	
LCS 500-350240/4	Lab Control Sample	Total/NA	Water	8260B	

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### HPLC/IC

#### Analysis Batch: 126703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Total/NA	Water	314.0	
500-116089-2	ELUC MW-12	Total/NA	Water	314.0	
500-116089-3	ELUC MW-10	Total/NA	Water	314.0	
500-116089-4	ELUC MW-11	Total/NA	Water	314.0	
500-116089-5	ELUC MW-14	Total/NA	Water	314.0	
MB 320-126703/5	Method Blank	Total/NA	Water	314.0	
LCS 320-126703/6	Lab Control Sample	Total/NA	Water	314.0	
MRL 320-126703/4	Lab Control Sample	Total/NA	Water	314.0	

### Metals

#### Prep Batch: 349662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	7470A	
500-116089-2	ELUC MW-12	Dissolved	Water	7470A	
500-116089-3	ELUC MW-10	Dissolved	Water	7470A	
500-116089-4	ELUC MW-11	Dissolved	Water	7470A	
500-116089-5	ELUC MW-14	Dissolved	Water	7470A	
MB 500-349662/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-349662/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-116089-1 MS	ELUC MW-15	Dissolved	Water	7470A	
500-116089-1 MSD	ELUC MW-15	Dissolved	Water	7470A	
500-116089-1 DU	ELUC MW-15	Dissolved	Water	7470A	

#### Analysis Batch: 349874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	7470A	349662
500-116089-2	ELUC MW-12	Dissolved	Water	7470A	349662
500-116089-3	ELUC MW-10	Dissolved	Water	7470A	349662
500-116089-4	ELUC MW-11	Dissolved	Water	7470A	349662
500-116089-5	ELUC MW-14	Dissolved	Water	7470A	349662
MB 500-349662/12-A	Method Blank	Total/NA	Water	7470A	349662
LCS 500-349662/13-A	Lab Control Sample	Total/NA	Water	7470A	349662

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## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### Metals (Continued)

#### Analysis Batch: 349874 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1 MS	ELUC MW-15	Dissolved	Water	7470A	349662
500-116089-1 MSD	ELUC MW-15	Dissolved	Water	7470A	349662
500-116089-1 DU	ELUC MW-15	Dissolved	Water	7470A	349662

#### Prep Batch: 350059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	Soluble Metals	
500-116089-2	ELUC MW-12	Dissolved	Water	Soluble Metals	
500-116089-3	ELUC MW-10	Dissolved	Water	Soluble Metals	
500-116089-4	ELUC MW-11	Dissolved	Water	Soluble Metals	
500-116089-5	ELUC MW-14	Dissolved	Water	Soluble Metals	
MB 500-350059/1-A	Method Blank	Soluble	Water	Soluble Metals	
LCS 500-350059/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
500-116089-5 MS	ELUC MW-14	Dissolved	Water	Soluble Metals	
500-116089-5 MSD	ELUC MW-14	Dissolved	Water	Soluble Metals	
500-116089-5 DU	ELUC MW-14	Dissolved	Water	Soluble Metals	

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#### Analysis Batch: 350113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	6020A	350059
500-116089-2	ELUC MW-12	Dissolved	Water	6020A	350059
500-116089-3	ELUC MW-10	Dissolved	Water	6020A	350059
500-116089-4	ELUC MW-11	Dissolved	Water	6020A	350059
500-116089-5	ELUC MW-14	Dissolved	Water	6020A	350059
MB 500-350059/1-A	Method Blank	Soluble	Water	6020A	350059
LCS 500-350059/2-A	Lab Control Sample	Soluble	Water	6020A	350059
500-116089-5 MS	ELUC MW-14	Dissolved	Water	6020A	350059
500-116089-5 MSD	ELUC MW-14	Dissolved	Water	6020A	350059
500-116089-5 DU	ELUC MW-14	Dissolved	Water	6020A	350059

#### Analysis Batch: 350201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	6020A	350059
500-116089-2	ELUC MW-12	Dissolved	Water	6020A	350059
500-116089-3	ELUC MW-10	Dissolved	Water	6020A	350059
500-116089-4	ELUC MW-11	Dissolved	Water	6020A	350059
500-116089-5	ELUC MW-14	Dissolved	Water	6020A	350059
MB 500-350059/1-A	Method Blank	Soluble	Water	6020A	350059
LCS 500-350059/2-A	Lab Control Sample	Soluble	Water	6020A	350059
500-116089-5 MS	ELUC MW-14	Dissolved	Water	6020A	350059
500-116089-5 MSD	ELUC MW-14	Dissolved	Water	6020A	350059
500-116089-5 DU	ELUC MW-14	Dissolved	Water	6020A	350059

#### Analysis Batch: 350380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	6020A	350059
500-116089-2	ELUC MW-12	Dissolved	Water	6020A	350059
500-116089-3	ELUC MW-10	Dissolved	Water	6020A	350059
500-116089-4	ELUC MW-11	Dissolved	Water	6020A	350059
500-116089-5	ELUC MW-14	Dissolved	Water	6020A	350059
MB 500-350059/1-A	Method Blank	Soluble	Water	6020A	350059

TestAmerica Chicago

## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### Metals (Continued)

#### Analysis Batch: 350380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-350059/2-A	Lab Control Sample	Soluble	Water	6020A	350059
500-116089-5 MS	ELUC MW-14	Dissolved	Water	6020A	350059
500-116089-5 MSD	ELUC MW-14	Dissolved	Water	6020A	350059
500-116089-5 DU	ELUC MW-14	Dissolved	Water	6020A	350059

### General Chemistry

#### Analysis Batch: 349121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	SM 4500 NO2 B	
MB 500-349121/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-349121/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

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#### Analysis Batch: 349540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	SM 2540C	
500-116089-2	ELUC MW-12	Dissolved	Water	SM 2540C	
500-116089-3	ELUC MW-10	Dissolved	Water	SM 2540C	
500-116089-4	ELUC MW-11	Dissolved	Water	SM 2540C	
500-116089-5	ELUC MW-14	Dissolved	Water	SM 2540C	
MB 500-349540/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-349540/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-116089-1 DU	ELUC MW-15	Dissolved	Water	SM 2540C	

#### Analysis Batch: 349715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	SM 4500 F C	
500-116089-2	ELUC MW-12	Dissolved	Water	SM 4500 F C	
500-116089-3	ELUC MW-10	Dissolved	Water	SM 4500 F C	
500-116089-4	ELUC MW-11	Dissolved	Water	SM 4500 F C	
500-116089-5	ELUC MW-14	Dissolved	Water	SM 4500 F C	
MB 500-349715/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-349715/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

#### Prep Batch: 349832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	9010B	
500-116089-2	ELUC MW-12	Dissolved	Water	9010B	
500-116089-3	ELUC MW-10	Dissolved	Water	9010B	
500-116089-4	ELUC MW-11	Dissolved	Water	9010B	
500-116089-5	ELUC MW-14	Dissolved	Water	9010B	
MB 500-349832/1-A	Method Blank	Total/NA	Water	9010B	
LCS 500-349832/2-A	Lab Control Sample	Total/NA	Water	9010B	

#### Analysis Batch: 349843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-3	ELUC MW-10	Dissolved	Water	SM 4500 NO2 B	
500-116089-4	ELUC MW-11	Dissolved	Water	SM 4500 NO2 B	
500-116089-5	ELUC MW-14	Dissolved	Water	SM 4500 NO2 B	
MB 500-349843/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

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## QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### General Chemistry (Continued)

#### Analysis Batch: 349843 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-349843/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
500-116089-3 MS	ELUC MW-10	Dissolved	Water	SM 4500 NO2 B	
500-116089-3 MSD	ELUC MW-10	Dissolved	Water	SM 4500 NO2 B	

#### Analysis Batch: 349846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-2	ELUC MW-12	Dissolved	Water	SM 4500 NO2 B	
MB 500-349846/31	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-349846/32	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

#### Analysis Batch: 350027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	9014	349832
500-116089-2	ELUC MW-12	Dissolved	Water	9014	349832
500-116089-3	ELUC MW-10	Dissolved	Water	9014	349832
500-116089-4	ELUC MW-11	Dissolved	Water	9014	349832
500-116089-5	ELUC MW-14	Dissolved	Water	9014	349832
MB 500-349832/1-A	Method Blank	Total/NA	Water	9014	349832
LCS 500-349832/2-A	Lab Control Sample	Total/NA	Water	9014	349832

#### Analysis Batch: 350498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	9251	
500-116089-2	ELUC MW-12	Dissolved	Water	9251	
500-116089-3	ELUC MW-10	Dissolved	Water	9251	
500-116089-4	ELUC MW-11	Dissolved	Water	9251	
500-116089-5	ELUC MW-14	Dissolved	Water	9251	
MB 500-350498/4	Method Blank	Total/NA	Water	9251	
LCS 500-350498/5	Lab Control Sample	Total/NA	Water	9251	
500-116089-2 MS	ELUC MW-12	Dissolved	Water	9251	
500-116089-2 MSD	ELUC MW-12	Dissolved	Water	9251	

#### Analysis Batch: 350588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	9038	
500-116089-2	ELUC MW-12	Dissolved	Water	9038	
500-116089-3	ELUC MW-10	Dissolved	Water	9038	
500-116089-4	ELUC MW-11	Dissolved	Water	9038	
500-116089-5	ELUC MW-14	Dissolved	Water	9038	
MB 500-350588/3	Method Blank	Total/NA	Water	9038	
LCS 500-350588/4	Lab Control Sample	Total/NA	Water	9038	
500-116089-3 MS	ELUC MW-10	Dissolved	Water	9038	
500-116089-3 MSD	ELUC MW-10	Dissolved	Water	9038	

#### Analysis Batch: 350701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	SM 4500 NO3 F	
500-116089-2	ELUC MW-12	Dissolved	Water	SM 4500 NO3 F	
500-116089-3	ELUC MW-10	Dissolved	Water	SM 4500 NO3 F	
500-116089-4	ELUC MW-11	Dissolved	Water	SM 4500 NO3 F	
500-116089-5	ELUC MW-14	Dissolved	Water	SM 4500 NO3 F	

TestAmerica Chicago

# QC Association Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

## General Chemistry (Continued)

### Analysis Batch: 350701 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-350701/40	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCS 500-350701/41	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
500-116089-2 MS	ELUC MW-12	Dissolved	Water	SM 4500 NO3 F	
500-116089-2 MSD	ELUC MW-12	Dissolved	Water	SM 4500 NO3 F	

### Analysis Batch: 350731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-116089-1	ELUC MW-15	Dissolved	Water	Nitrate by calc	
500-116089-2	ELUC MW-12	Dissolved	Water	Nitrate by calc	
500-116089-3	ELUC MW-10	Dissolved	Water	Nitrate by calc	
500-116089-4	ELUC MW-11	Dissolved	Water	Nitrate by calc	
500-116089-5	ELUC MW-14	Dissolved	Water	Nitrate by calc	

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TestAmerica Chicago

# Surrogate Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (71-127)	TOL (75-120)	BFB (71-120)	DBFM (70-120)
500-116089-1	ELUC MW-15	86	96	99	95
500-116089-2	ELUC MW-12	88	95	96	97
500-116089-3	ELUC MW-10	92	98	99	96
500-116089-4	ELUC MW-11	94	98	104	94
500-116089-5	ELUC MW-14	94	100	104	94
LCS 500-349920/4	Lab Control Sample	96	101	102	96
LCS 500-350240/4	Lab Control Sample	87	99	94	98
MB 500-349920/6	Method Blank	96	99	105	95
MB 500-350240/7	Method Blank	90	99	96	95

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-349920/6  
Matrix: Water  
Analysis Batch: 349920

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00050		0.00050		mg/L			08/30/16 20:36	1
Toluene	<0.00050		0.00050		mg/L			08/30/16 20:36	1
Ethylbenzene	<0.00050		0.00050		mg/L			08/30/16 20:36	1
Xylenes, Total	<0.0010		0.0010		mg/L			08/30/16 20:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		71 - 127		08/30/16 20:36	1
Toluene-d8 (Surr)	99		75 - 120		08/30/16 20:36	1
4-Bromofluorobenzene (Surr)	105		71 - 120		08/30/16 20:36	1
Dibromofluoromethane	95		70 - 120		08/30/16 20:36	1

Lab Sample ID: LCS 500-349920/4  
Matrix: Water  
Analysis Batch: 349920

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Benzene	0.0500	0.0441		mg/L		88	70 - 125
Toluene	0.0500	0.0445		mg/L		89	70 - 125
Ethylbenzene	0.0500	0.0436		mg/L		87	70 - 125
Xylenes, Total	0.100	0.0861		mg/L		86	70 - 125

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		71 - 127
Toluene-d8 (Surr)	101		75 - 120
4-Bromofluorobenzene (Surr)	102		71 - 120
Dibromofluoromethane	96		70 - 120

Lab Sample ID: MB 500-350240/7  
Matrix: Water  
Analysis Batch: 350240

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.00050		0.00050		mg/L			09/01/16 16:27	1
Toluene	<0.00050		0.00050		mg/L			09/01/16 16:27	1
Ethylbenzene	<0.00050		0.00050		mg/L			09/01/16 16:27	1
Xylenes, Total	<0.0010		0.0010		mg/L			09/01/16 16:27	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		71 - 127		09/01/16 16:27	1
Toluene-d8 (Surr)	99		75 - 120		09/01/16 16:27	1
4-Bromofluorobenzene (Surr)	96		71 - 120		09/01/16 16:27	1
Dibromofluoromethane	95		70 - 120		09/01/16 16:27	1

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## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-350240/4  
Matrix: Water  
Analysis Batch: 350240

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Benzene	0.0500	0.0441		mg/L		88	70 - 125	
Toluene	0.0500	0.0434		mg/L		87	70 - 125	
Ethylbenzene	0.0500	0.0440		mg/L		88	70 - 125	
Xylenes, Total	0.100	0.0833		mg/L		83	70 - 125	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2 Dichloroethane d4 (Surr)	87		71 - 127
Toluene-d8 (Surr)	99		75 - 120
4-Bromofluorobenzene (Surr)	94		71 - 120
Dibromofluoromethane	98		70 - 120

### Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-126703/5  
Matrix: Water  
Analysis Batch: 126703

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perchlorate	<0.0040		0.0040		mg/L			09/09/16 16:32	1

Lab Sample ID: LCS 320-126703/6  
Matrix: Water  
Analysis Batch: 126703

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Perchlorate	0.0500	0.0510		mg/L		102	85 - 115	

Lab Sample ID: MRL 320-126703/4  
Matrix: Water  
Analysis Batch: 126703

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Perchlorate	4.00	<4.0		ug/L		98	75 - 125	

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

Lab Sample ID: 500-116089-5 MS  
Matrix: Water  
Analysis Batch: 350113

Client Sample ID: ELUC MW-14  
Prep Type: Dissolved  
Prep Batch: 350059

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	
Antimony	<0.0030		0.500	0.520		mg/L		104	75 - 125	
Arsenic	0.71		0.100	0.774	4	mg/L		67	75 - 125	
Barium	0.051		0.500	0.555		mg/L		101	75 - 125	
Beryllium	<0.0010		0.0500	0.0527		mg/L		105	75 - 125	
Cadmium	<0.00050		0.0500	0.0514		mg/L		103	75 - 125	
Chromium	0.0060		0.200	0.217		mg/L		105	75 - 125	
Cobalt	<0.0010		0.500	0.527		mg/L		105	75 - 125	

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# QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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

Lab Sample ID: 500-116089-5 MS Matrix: Water Analysis Batch: 350113				Client Sample ID: ELUC MW-14 Prep Type: Dissolved Prep Batch: 350059 %Rec.						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	
Iron	4.7		1.00	5.71	4	mg/L		101	75 - 125	
Lead	<0.00050		0.100	0.105		mg/L		105	75 - 125	
Manganese	0.13		0.500	0.669		mg/L		107	75 - 125	
Nickel	0.0084		0.500	0.528		mg/L		104	75 - 125	
Selenium	<0.0025		0.100	0.117		mg/L		117	75 - 125	
Silver	<0.00050		0.0500	0.0473		mg/L		95	75 - 125	
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125	
Vanadium	<0.0050		0.500	0.532		mg/L		106	75 - 125	
Zinc	<0.020		0.500	0.505		mg/L		101	75 - 125	

Lab Sample ID: 500-116089-5 MS Matrix: Water Analysis Batch: 350201				Client Sample ID: ELUC MW-14 Prep Type: Dissolved Prep Batch: 350059 %Rec.						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	
Copper	<0.0020		0.250	0.249		mg/L		100	75 - 125	

Lab Sample ID: 500-116089-5 MS Matrix: Water Analysis Batch: 350380				Client Sample ID: ELUC MW-14 Prep Type: Dissolved Prep Batch: 350059 %Rec.						
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits	
Boron	1.3		1.00	2.36		mg/L		106	75 - 125	

Lab Sample ID: 500-116089-5 MSD Matrix: Water Analysis Batch: 350113				Client Sample ID: ELUC MW-14 Prep Type: Dissolved Prep Batch: 350059 %Rec.							
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Antimony	<0.0030		0.500	0.541		mg/L		108	75 - 125	4	20
Arsenic	0.71		0.100	0.792	4	mg/L		85	75 - 125	2	20
Barium	0.051		0.500	0.582		mg/L		106	75 - 125	5	20
Beryllium	<0.0010		0.0500	0.0570		mg/L		114	75 - 125	8	20
Cadmium	<0.00050		0.0500	0.0538		mg/L		108	75 - 125	5	20
Chromium	0.0060		0.200	0.223		mg/L		109	75 - 125	3	20
Cobalt	<0.0010		0.500	0.546		mg/L		109	75 - 125	4	20
Iron	4.7		1.00	5.77	4	mg/L		106	75 - 125	1	20
Lead	<0.00050		0.100	0.110		mg/L		110	75 - 125	5	20
Manganese	0.13		0.500	0.689		mg/L		111	75 - 125	3	20
Nickel	0.0084		0.500	0.546		mg/L		107	75 - 125	3	20
Selenium	<0.0025		0.100	0.120		mg/L		120	75 - 125	3	20
Silver	<0.00050		0.0500	0.0496		mg/L		99	75 - 125	5	20
Thallium	<0.0020		0.100	0.113		mg/L		113	75 - 125	6	20
Vanadium	<0.0050		0.500	0.554		mg/L		111	75 - 125	4	20
Zinc	<0.020		0.500	0.531		mg/L		106	75 - 125	5	20

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## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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

Lab Sample ID: 500-116089-5 MSD  
Matrix: Water  
Analysis Batch: 350201

Client Sample ID: ELUC MW-14  
Prep Type: Dissolved  
Prep Batch: 350059

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Copper	<0.0020		0.250	0.256		mg/L		102	75 - 125	3	20

Lab Sample ID: 500-116089-5 MSD  
Matrix: Water  
Analysis Batch: 350380

Client Sample ID: ELUC MW-14  
Prep Type: Dissolved  
Prep Batch: 350059

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Boron	1.3		1.00	2.28		mg/L		98	75 - 125	3	20

Lab Sample ID: 500-116089-5 DU  
Matrix: Water  
Analysis Batch: 350113

Client Sample ID: ELUC MW-14  
Prep Type: Dissolved  
Prep Batch: 350059

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.71		0.661		mg/L		7	20
Barium	0.051		0.0488		mg/L		5	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Chromium	0.0060		0.00592		mg/L		1	20
Cobalt	<0.0010		<0.0010		mg/L		NC	20
Copper	<0.0020	^	<0.0020		mg/L		NC	20
Iron	4.7		4.52		mg/L		4	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Manganese	0.13		0.129		mg/L		4	20
Nickel	0.0084		0.00811		mg/L		4	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Silver	<0.00050		<0.00050		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20
Vanadium	<0.0050		<0.0050		mg/L		NC	20
Zinc	<0.020		<0.020		mg/L		NC	20

Lab Sample ID: 500-116089-5 DU  
Matrix: Water  
Analysis Batch: 350201

Client Sample ID: ELUC MW-14  
Prep Type: Dissolved  
Prep Batch: 350059

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Copper	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-116089-5 DU  
Matrix: Water  
Analysis Batch: 350380

Client Sample ID: ELUC MW-14  
Prep Type: Dissolved  
Prep Batch: 350059

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Boron	1.3		1.15		mg/L		12	20

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## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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

Lab Sample ID: MB 500-350059/1-A  
Matrix: Water  
Analysis Batch: 350113

Client Sample ID: Method Blank  
Prep Type: Soluble  
Prep Batch: 350059

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		08/31/16 11:17	08/31/16 11:29	1
Arsenic	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 11:29	1
Barium	<0.0025		0.0025		mg/L		08/31/16 11:17	08/31/16 11:29	1
Beryllium	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 11:29	1
Cadmium	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 11:29	1
Chromium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 11:29	1
Cobalt	<0.0010		0.0010		mg/L		08/31/16 11:17	08/31/16 11:29	1
Iron	<0.10		0.10		mg/L		08/31/16 11:17	08/31/16 11:29	1
Lead	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 11:29	1
Manganese	<0.0025		0.0025		mg/L		08/31/16 11:17	08/31/16 11:29	1
Nickel	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 11:29	1
Selenium	<0.0025		0.0025		mg/L		08/31/16 11:17	08/31/16 11:29	1
Silver	<0.00050		0.00050		mg/L		08/31/16 11:17	08/31/16 11:29	1
Thallium	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 11:29	1
Vanadium	<0.0050		0.0050		mg/L		08/31/16 11:17	08/31/16 11:29	1
Zinc	<0.020		0.020		mg/L		08/31/16 11:17	08/31/16 11:29	1

Lab Sample ID: MB 500-350059/1-A  
Matrix: Water  
Analysis Batch: 350201

Client Sample ID: Method Blank  
Prep Type: Soluble  
Prep Batch: 350059

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	<0.0020		0.0020		mg/L		08/31/16 11:17	08/31/16 18:53	1

Lab Sample ID: MB 500-350059/1-A  
Matrix: Water  
Analysis Batch: 350380

Client Sample ID: Method Blank  
Prep Type: Soluble  
Prep Batch: 350059

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		08/31/16 11:17	09/01/16 14:04	1

Lab Sample ID: LCS 500-350059/2-A  
Matrix: Water  
Analysis Batch: 350113

Client Sample ID: Lab Control Sample  
Prep Type: Soluble  
Prep Batch: 350059

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
Antimony	0.500	0.516		mg/L		103	80 - 120	
Arsenic	0.100	0.102		mg/L		102	80 - 120	
Barium	0.500	0.517		mg/L		103	80 - 120	
Beryllium	0.0500	0.0517		mg/L		103	80 - 120	
Cadmium	0.0500	0.0535		mg/L		107	80 - 120	
Chromium	0.200	0.213		mg/L		106	80 - 120	
Cobalt	0.500	0.546		mg/L		109	80 - 120	
Iron	1.00	1.11		mg/L		111	80 - 120	
Lead	0.100	0.105		mg/L		105	80 - 120	
Manganese	0.500	0.539		mg/L		108	80 - 120	
Nickel	0.500	0.548		mg/L		110	80 - 120	
Selenium	0.100	0.101		mg/L		101	80 - 120	
Silver	0.0500	0.0520		mg/L		104	80 - 120	

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## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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

Lab Sample ID: LCS 500-350059/2-A  
Matrix: Water  
Analysis Batch: 350113

Client Sample ID: Lab Control Sample  
Prep Type: Soluble  
Prep Batch: 350059  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Thallium	0.100	0.106		mg/L		106	80 - 120
Vanadium	0.500	0.532		mg/L		106	80 - 120
Zinc	0.500	0.529		mg/L		106	80 - 120

Lab Sample ID: LCS 500-350059/2-A  
Matrix: Water  
Analysis Batch: 350201

Client Sample ID: Lab Control Sample  
Prep Type: Soluble  
Prep Batch: 350059  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	0.250	0.256		mg/L		102	80 - 120

Lab Sample ID: LCS 500-350059/2-A  
Matrix: Water  
Analysis Batch: 350380

Client Sample ID: Lab Control Sample  
Prep Type: Soluble  
Prep Batch: 350059  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Boron	1.00	1.03		mg/L		103	80 - 120

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

Lab Sample ID: MB 500-349662/12-A  
Matrix: Water  
Analysis Batch: 349874

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 349662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		08/29/16 13:30	08/30/16 12:44	1

Lab Sample ID: LCS 500-349662/13-A  
Matrix: Water  
Analysis Batch: 349874

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 349662  
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00185		mg/L		93	80 - 120

Lab Sample ID: 500-116089-1 MS  
Matrix: Water  
Analysis Batch: 349874

Client Sample ID: ELUC MW-15  
Prep Type: Dissolved  
Prep Batch: 349662  
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.000865		mg/L		86	75 - 125

Lab Sample ID: 500-116089-1 MSD  
Matrix: Water  
Analysis Batch: 349874

Client Sample ID: ELUC MW-15  
Prep Type: Dissolved  
Prep Batch: 349662  
%Rec. RPD

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.000934		mg/L		93	75 - 125	8	20

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

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

Lab Sample ID: 500-116089-1 DU  
Matrix: Water  
Analysis Batch: 349874

Client Sample ID: ELUC MW-15  
Prep Type: Dissolved  
Prep Batch: 349662

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

### Method: 9014 - Cyanide

Lab Sample ID: MB 500-349832/1-A  
Matrix: Water  
Analysis Batch: 350027

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 349832

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	<0.010		0.010		mg/L		08/30/16 13:45	08/30/16 20:06	1

Lab Sample ID: LCS 500-349832/2-A  
Matrix: Water  
Analysis Batch: 350027

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 349832

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Cyanide, Total	0.100	0.0974		mg/L		97	80 - 120

### Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-350588/3  
Matrix: Water  
Analysis Batch: 350588

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	<5.0		5.0		mg/L			09/06/16 06:38	1

Lab Sample ID: LCS 500-350588/4  
Matrix: Water  
Analysis Batch: 350588

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Sulfate	20.0	18.6		mg/L		93	80 - 120

Lab Sample ID: 500-116089-3 MS  
Matrix: Water  
Analysis Batch: 350588

Client Sample ID: ELUC MW-10  
Prep Type: Dissolved

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
Sulfate	130		400	520		mg/L		96	75 - 125

Lab Sample ID: 500-116089-3 MSD  
Matrix: Water  
Analysis Batch: 350588

Client Sample ID: ELUC MW-10  
Prep Type: Dissolved

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Sulfate	130		400	546		mg/L		103	75 - 125	5	20

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### Method: 9251 - Chloride

Lab Sample ID: MB 500-350498/4  
Matrix: Water  
Analysis Batch: 350498

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<2.0		2.0		mg/L			09/01/16 22:28	1

Lab Sample ID: LCS 500-350498/5  
Matrix: Water  
Analysis Batch: 350498

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	49.3		mg/L		99	80 - 120	

Lab Sample ID: 500-116089-2 MS  
Matrix: Water  
Analysis Batch: 350498

Client Sample ID: ELUC MW-12  
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloride	180		50.0	218		mg/L		85	75 - 125	

Lab Sample ID: 500-116089-2 MSD  
Matrix: Water  
Analysis Batch: 350498

Client Sample ID: ELUC MW-12  
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit
Chloride	180		50.0	216		mg/L		81	75 - 125	1	20

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

Lab Sample ID: MB 500-349540/1  
Matrix: Water  
Analysis Batch: 349540

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			08/28/16 22:08	1

Lab Sample ID: LCS 500-349540/2  
Matrix: Water  
Analysis Batch: 349540

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	284		mg/L		114	80 - 120	

Lab Sample ID: 500-116089-1 DU  
Matrix: Water  
Analysis Batch: 349540

Client Sample ID: ELUC MW-15  
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit	
Total Dissolved Solids	1100		1120		mg/L		1	5	

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-349715/3  
Matrix: Water  
Analysis Batch: 349715

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Fluoride	<0.10		0.10		mg/L			08/29/16 14:17	1

Lab Sample ID: LCS 500-349715/4  
Matrix: Water  
Analysis Batch: 349715

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

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

### Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-349121/3  
Matrix: Water  
Analysis Batch: 349121

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrite	<0.020		0.020		mg/L			08/24/16 13:57	1

Lab Sample ID: LCS 500-349121/4  
Matrix: Water  
Analysis Batch: 349121

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

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

Lab Sample ID: MB 500-349843/3  
Matrix: Water  
Analysis Batch: 349843

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrite	<0.020		0.020		mg/L			08/27/16 18:21	1

Lab Sample ID: LCS 500-349843/4  
Matrix: Water  
Analysis Batch: 349843

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

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

Lab Sample ID: MB 500-349846/31  
Matrix: Water  
Analysis Batch: 349846

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrite	<0.020		0.020		mg/L			08/26/16 15:34	1

TestAmerica Chicago

## QC Sample Results

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### Method: SM 4500 NO2 B - Nitrogen, Nitrite (Continued)

Lab Sample ID: LCS 500-349846/32  
Matrix: Water  
Analysis Batch: 349846

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: 500-116089-3 MS  
Matrix: Water  
Analysis Batch: 349843

Client Sample ID: ELUC MW-10  
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrite	<0.020		0.100	0.0933		mg/L		93	75 - 125

Lab Sample ID: 500-116089-3 MSD  
Matrix: Water  
Analysis Batch: 349843

Client Sample ID: ELUC MW-10  
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Nitrogen, Nitrite	<0.020		0.100	0.0936		mg/L		94	75 - 125	0	20

### Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-350701/40  
Matrix: Water  
Analysis Batch: 350701

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			09/04/16 21:05	1

Lab Sample ID: LCS 500-350701/41  
Matrix: Water  
Analysis Batch: 350701

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	1.00	1.16		mg/L		116	80 - 120

Lab Sample ID: 500-116089-2 MS  
Matrix: Water  
Analysis Batch: 350701

Client Sample ID: ELUC MW-12  
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Nitrate Nitrite	<0.10		1.00	0.873		mg/L		87	75 - 125

Lab Sample ID: 500-116089-2 MSD  
Matrix: Water  
Analysis Batch: 350701

Client Sample ID: ELUC MW-12  
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Nitrogen, Nitrate Nitrite	<0.10		1.00	0.913		mg/L		91	75 - 125	4	20

TestAmerica Chicago

# 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: Rich Gnat  
 Company: KPRG & Associates Inc.  
 Address: 14665 W. Lisbon Rd, Suite 2B  
 Brookfield, WI, 53005  
 Phone: 262-781-0475  
 Fax:  
 Email:

**Bill To:**

Contact:  
 Company:  
 Address:  
 Phone:  
 Fax:  
 PO #:

Lab Lot # 500-116089  
 Package Sealed  
 Yes No  
 Samples Sealed  
 Yes No  
 Received on Ice  
 Yes No  
 Samples Intact  
 Yes No N/A  
 Temperature °C of Cooler 5.3

Sampler Name: Ian John Howleson		Client Project # 12313.2		Refr #																	Within-Hold Time Yes No	Preserv. Indicated Yes No <u>N/A</u>	
Project Name: Waukegan Station Ash Ponds		TestAmerica Project Number: 50004763		Volume																	Check OK Yes No	Res CL <sub>2</sub> Check Yes No <u>N/A</u>	
Project Location: Waukegan, IL		Date Required Hard Copy: / /		Preserv.	<u>7</u>																	Sample Labels and COC Agree Yes No	COC not present
Lab PM: Eric Lang		Fax: / /		Matrix																			Additional Analyses / Remarks
Laboratory ID	MS-REQ	Client Sample ID	Sampling Date	Time	Matrix	# of Containers	NO2																
		ELUC MW-10			W																		
		ELUC MW-11			W																		
		ELUC MW-12			W																		
		ELUC MW-14			W																		
NB N		ELUC MW-15	8-23-16	12:58	W	1	X																



12

RELINQUISHED BY: <u>ISM</u>	COMPANY: <u>KPRG</u>	DATE: <u>8-23-16</u>	TIME: <u>18:30</u>	RECEIVED BY: <u>FedEx</u>	COMPANY:	DATE: <u>08/24/16</u>	TIME: <u>10:15</u>
RELINQUISHED BY: <u>[Signature]</u>	COMPANY:	DATE:	TIME:	RECEIVED BY: <u>[Signature]</u>	COMPANY: <u>TAHI</u>	DATE: <u>08/24/16</u>	TIME: <u>10:15</u>

- |  |   |  |   |
|--|---|--|---|
| <p><b>Matrix Key</b></p> <p>WW = Wastewater<br/>                 W = Water<br/>                 S = Soil<br/>                 SL = Sludge<br/>                 MS = Miscellaneous<br/>                 OL = Oil<br/>                 A = Air</p> | <p><b>SE = Sediment</b></p> <p>SO = Solid<br/>                 DL = Drum Liquid<br/>                 DS = Drum Solid<br/>                 L = Leachate<br/>                 W = Wipe<br/>                 O =</p> | <p><b>Container Key</b></p> <p>1. Plastic<br/>                 2. VOA Vial<br/>                 3. Sterile Plastic<br/>                 4. Amber Glass<br/>                 5. Widemouth Glass<br/>                 6. Other</p> | <p><b>Preservative Key</b></p> <p>1. HCl, Cool to 4°<br/>                 2. H<sub>2</sub>SO<sub>4</sub>, Cool to 4°<br/>                 3. HNO<sub>3</sub>, Cool to 4°<br/>                 4. NaOH, Cool to 4°<br/>                 5. NaOH/Zn, Cool to 4°<br/>                 6. Cool to 4°<br/>                 7. None</p> |
|--|---|--|---|

COMMENTS:

Date Received 08/24/16  
 Courier:  
 Hand Delivered   
 Bill of Lading: FedEx  
 PAGE 1 of 2

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
**TestAmerica Chicago**  
 2417 Bond St.  
 University Park, IL 60484  
 708-634-5200  
 Fax: 708-634-5211

**Report To:**

Contact: Rich Gnat  
 Company: KPRG & Associates Inc.  
 Address: 14685 W. Lisbon Rd. Suite 2B  
 Brookfield, WI, 53005  
 Phone: 262-781-0475  
 Fax:  
 Email:

**Bill To:**

Contact:  
 Company:  
 Address:  
 Phone:  
 Fax:  
 PO #:

Lab Lot # **500-116089**

Package Sealed  
 Yes  No  
 Samples Sealed  
 Yes  No  
 Received on Ice  
 Yes  No  
 Samples Intact  
 Yes  No  N/A  
 Temperature °C of Cooler  
 5.9  
 Within Hold Time  
 Yes  No  
 Preserv. Indicated  
 Yes  No  N/A  
 pH Check OK  
 Yes  No  
 Res CL<sub>2</sub> Check OK  
 Yes  No  N/A  
 Sample Labels and COC Agree  
 Yes  No  
 COC not present

Sampler Name: Ian John Howieson		Client Project # 12313.2		Refrg #													
Project Name: Waukegan Station Ash Ponds		TestAmerica Project Number: 50004763		Volume		Preserv.											
Project Location: Waukegan, IL		Date Required Hard Copy: / /		Matrix		# of Containers											
Lab PM: Eric Lang		Fax: / /															
Laboratory ID	Client Sample ID	Sampling Date Time		Matrix	# of Containers	NO2											
	ELUC MW-10			W	1												
	ELUC MW-11			W	1												
2	ELUC MW-12	8-25-16	16:04	W	1	X											
	ELUC MW-14			W	1												
NB N	ELUC MW-15			W	1												



RELINQUISHED BY: *ISH* COMPANY: *KPRG* DATE: *8-25-16* TIME: *18:30* RECEIVED BY: *FEDEX* COMPANY: DATE: TIME:  
 RELINQUISHED BY: COMPANY: DATE: TIME: RECEIVED BY: *Eric Lang* COMPANY: *TAHTE* DATE: *8/26/16* TIME: *10:25*

- |   |  |   |  |
|---|--|---|--|
| <b>Matrix Key</b><br>WW = Wastewater<br>W = Water<br>S = Soil<br>SL = Sludge<br>MS = Miscellaneous<br>OL = Oil<br>A = Air | <b>SE = Sediment</b><br>SO = Solid<br>DL = Drum Liquid<br>DS = Drum Solid<br>L = Leachate<br>W = Wipe<br>O = | <b>Container Key</b><br>1. Plastic<br>2. VOA Vial<br>3. Sterile Plastic<br>4. Amber Glass<br>5. Widemouth Glass<br>6. Other | <b>Preservative Key</b><br>1. HCl, Cool to 4°<br>2. H <sub>2</sub> SO <sub>4</sub> , Cool to 4°<br>3. HNO <sub>3</sub> , Cool to 4°<br>4. NaOH, Cool to 4°<br>5. NaOH/Zn, Cool to 4°<br>6. Cool to 4°<br>7. None |
|---|--|---|--|

COMMENTS:  
 Date Received: *8/26/16*  
 Courier:  
 Hand Delivered   
 Bill of Lading: *3 of 3*

12

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
**TestAmerica Chicago**  
 2417 Bond St.  
 University Park, IL 60484  
 708-634-6200  
 Fax: 708-634-6211

Report To:

Contact: Rich Gnat  
 Company: KPRG & Associates Inc.  
 Address: 14665 W. Lisbon Rd. Suite 2B  
 Brookfield, WI, 53005  
 Phone: 262-781-0475  
 Fax:  
 Email:

Bill To:

Contact:  
 Company:  
 Address:  
 Phone:  
 Fax:  
 PO #:

Lab Lot # 500-116089  
 Package Sealed  Yes  No  
 Samples Sealed  Yes  No  
 Received on Ice  Yes  No  
 Samples Intact  Yes  No  N/A  
 Temperature °C of Cooler 3.3, 1.7, 3.2

Sampler Name: Ian John Howleason		Client Project # 12313.2		Refrg #														
Project Name: Waukegan Station Ash Ponds		TestAmerica Project Number: 50004763		# / Cont.														
Project Location: Waukegan, IL		Date Required		Volume														
Lab PM: Eric Lang		Hard Copy: / /		Preserv.														
Laboratory ID	MSD	Client Sample ID	Sampling Date	Time	Matrix	# of Containers	Metals Dissolved	Cl, TDS, SO4, F,	NO2	NO3 - NO2	Cyanide	Perchlorate	BTEX	Additional Analyses / Remarks				
3		ELUC MW-10	8-26-16	10:12	W	9	X	X	X	X	X	X	X					
4		ELUC MW-11	8-26-16	13:18	W	9	X	X	X	X	X	X	X					
2		ELUC MW-12	8-26-16	16:04	W	8	X	X	X	X	X	X	X					
5		ELUC MW-14	8-26-16	11:34	W	9	X	X	X	X	X	X	X					
NB N	1	ELUC MW-15	8-23-16	12:38	W	8	X	X	X	X	X	X	X					



500-116089 COC

RELINQUISHED BY: <u>ISH</u>	COMPANY: <u>KPRG</u>	DATE: <u>8-26-16</u>	TIME: <u>16:40</u>	RECEIVED BY: <u>P. Neal</u>	COMPANY: <u>TA</u>	DATE: <u>8/25/16</u>	TIME: <u>16:40</u>
RELINQUISHED BY: <u>[Signature]</u>	COMPANY: <u>TA</u>	DATE: <u>8/26/16</u>	TIME: <u>17:55</u>	RECEIVED BY: <u>[Signature]</u>	COMPANY: <u>TA/UMS</u>	DATE: <u>8/26/16</u>	TIME: <u>17:55</u>

- Matrix Key**
- WW = Wastewater
  - W = Water
  - S = Soil
  - SL = Sludge
  - MS = Miscellaneous
  - OL = Oil
  - A = Air
  - SE = Sediment
  - SO = Solid
  - DL = Drum Liquid
  - DS = Drum Solid
  - L = Leachate
  - W = Wipe
  - 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 08/26/16  
 Courier:  
 Hand Delivered   
 Bill of Lading:

PAGE 3 of 3

STL-8208 (0600)

12





ORIGIN ID: FEPA (630) 325-1300  
I. J. HOWISON  
KPRG  
414 PLAZA DR STE 106  
WESMONT, IL 60559  
UNITED STATES US

SHIP DATE: 25AUG16  
ACTWT: 26.70 LB  
CAD: 006994084/88FE1704  
DIMS: 19x11x13 IN  
BILL THIRD PARTY

15442752075800-52951 9-16

TO TEST AMERICA CHICAGO

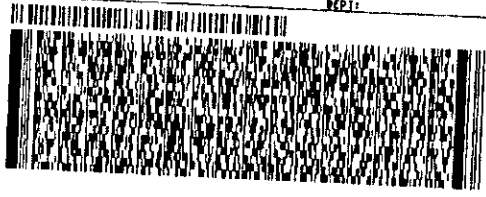
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-6200

REF:

REF:



FedEx  
Express



1182014071607m

A  
7134  
18.26

TRK# 7839 2328 7134  
0201

FRI - 26 AUG 3:00P  
STANDARD OVERNIGHT

79 JOTA

60484  
IL-US ORD



500-116089 Waybill



12

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

Chain of Custody Record



TestAmerica

<b>Client Information (Sub Contract Lab)</b>		Sampler Lang, Eric A	Lab PM Lang, Eric A	Carrier Tracking No(s)	CDC No 500-77342 1																																																															
Client Contact Shipping/Receiving		Phone	E-Mail eric.lang@testamericainc.com		Page Page 1 of 1																																																															
Company TestAmerica Laboratories, Inc		<b>Analysis Requested</b>			Job # 500-116089-1																																																															
Address 880 Riverside Parkway		Due Date Requested 9/6/2016	<table border="1"> <tr> <td rowspan="5">Field Filtered Sample (Yes or No)</td> <td rowspan="5">Perform Inactivated (Yes or No)</td> <td rowspan="5">316 D Perchlorate</td> <td colspan="12">Preservation Codes:</td> </tr> <tr> <td colspan="12">           A - HCl                      M - Hexane            B - NaOH                  N - None            C - Zn Acetate            O - As<sub>2</sub>NiO<sub>2</sub>            D - Nitric Acid            P - Na<sub>2</sub>O<sub>4</sub>S            E - NaHSO<sub>4</sub>                U - Na<sub>2</sub>SO<sub>3</sub>            F - MeOH                    R - Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>            G - Amchlor                S - H<sub>2</sub>SO<sub>4</sub>            H - Ascorbic Acid        T - TSP Dodecahydrate            I - Ice                         U - Acetone            J - DI Water                V - MCAA            K - EDTA                    W - pH 4-5            L - EDA                      Z - other (specify)         </td> </tr> <tr> <td colspan="12">Other:</td> </tr> <tr> <td colspan="12">Special Instructions/Note:</td> </tr> <tr> <td colspan="12"></td> </tr> </table>			Field Filtered Sample (Yes or No)	Perform Inactivated (Yes or No)	316 D Perchlorate	Preservation Codes:												A - HCl                      M - Hexane B - NaOH                  N - None C - Zn Acetate            O - As <sub>2</sub> NiO <sub>2</sub> D - Nitric Acid            P - Na <sub>2</sub> O <sub>4</sub> S E - NaHSO <sub>4</sub> U - Na <sub>2</sub> SO <sub>3</sub> F - MeOH                    R - Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> G - Amchlor                S - H <sub>2</sub> SO <sub>4</sub> H - Ascorbic Acid        T - TSP Dodecahydrate I - Ice                         U - Acetone J - DI Water                V - MCAA K - EDTA                    W - pH 4-5 L - EDA                      Z - other (specify)												Other:												Special Instructions/Note:																							
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City West Sacramento		TAT Requested (days)																																																																		
State Zip CA, 95605		PO #																																																																		
Phone 916-373-5600(Tel) 916-372-1059(Fax)		WO #																																																																		
Email																																																																				
Project Name Waukegan Station CCA		Project # 50004763																																																																		
Site NRG Midwest Generation Waukegan		SSDW#																																																																		
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=other)</b>	<b>Preservation Code:</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform Inactivated (Yes or No)</b>	<b>316 D Perchlorate</b>	<b>Total Number of Containers</b>	<b>Special Instructions/Note:</b>																																																									
ELUC MW-15 (500-116089-1)		8/23/16	12:38 Central		Water		X			1																																																										
ELUC MW-12 (500-116089-2)		8/25/16	16:04 Central		Water		X			1																																																										
ELUC MW-10 (500-116089-3)		8/26/16	10:12 Central		Water		X			1																																																										
ELUC MW-11 (500-116089-4)		8/26/16	13:18 Central		Water		X			1																																																										
ELUC MW-14 (500-116089-5)		8/26/16	11:34 Central		Water		X			1																																																										
<b>Possible Hazard Identification</b>		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>																																																																		
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																																		
Deliverable Requested I, II, III, IV, Other (specify)		Primary Deliverable Rank 2			Special Instructions/QC Requirements																																																															
<b>Empty Kit Relinquished by</b>		<b>Date:</b>	<b>Time:</b>	<b>Method of Storage</b>																																																																
Relinquished by <i>[Signature]</i>		Date/Time 08/29/16 1200	Company TA	Received by <i>[Signature]</i>		Date/Time 8/30/16 0930	Company <i>[Signature]</i>																																																													
Relinquished by		Date/Time	Company	Received by		Date/Time	Company																																																													
Relinquished by		Date/Time	Company	Received by		Date/Time	Company																																																													
<b>Custody Seals Intact:</b> Yes    No		<b>Custody Seal No.:</b>		<b>Cooler Temperature(s) °C and Other Remarks</b> 20																																																																

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MMWG13-15-61477  
9/13/2016

## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-116089-1

Login Number: 116089

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.3,5.9,3.3,1.7,3.2
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 leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-116089-1

Login Number: 116089  
List Number: 2  
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento  
List Creation: 08/31/16 05:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	
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?	N/A	
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.	False	HEADSPACE FOR 314
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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## Certification Summary

Client: KPRG and Associates, Inc.  
Project/Site: Waukegan Station CCA

TestAmerica Job ID: 500-116089-1

### 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

### Laboratory: TestAmerica Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-17
Alaska (UST)	State Program	10	UST-055	12-18-16
Arizona	State Program	9	AZ0708	08-11-17
Arkansas DEQ	State Program	6	88-0691	06-17-17
California	State Program	9	2897	01-31-18
Colorado	State Program	8	CA00044	08-31-16 *
Connecticut	State Program	1	PH-0691	06-30-17
Florida	NELAP	4	E87570	06-30-17
Hawaii	State Program	9	N/A	01-31-17
Illinois	NELAP	5	200060	03-17-17
Kansas	NELAP	7	E-10375	10-31-16
Louisiana	NELAP	6	30612	06-30-17
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-17
New Jersey	NELAP	2	CA005	06-30-17
New York	NELAP	2	11666	04-01-17
Oregon	NELAP	10	4040	01-29-17
Pennsylvania	NELAP	3	68-01272	03-31-17
Texas	NELAP	6	T104704399	07-31-17
US Fish & Wildlife	Federal		LE148388-0	10-31-16
USDA	Federal		P330-11-00436	12-30-17
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	CA00044	02-28-17
Virginia	NELAP	3	460278	03-14-17
Washington	State Program	10	C581	05-05-17
West Virginia (DW)	State Program	3	9930C	12-31-16
Wyoming	State Program	8	8TMS-L	01-29-17

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\* Certification renewal pending - certification considered valid.