

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

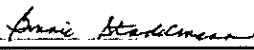
## ANALYTICAL REPORT

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

TestAmerica Job ID: 500-87368-2  
Client Project/Site: Waukegan Station Ash Ponds

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

Attn: Richard Gnat

  
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Authorized for release by:  
11/20/2014 4:32:35 PM

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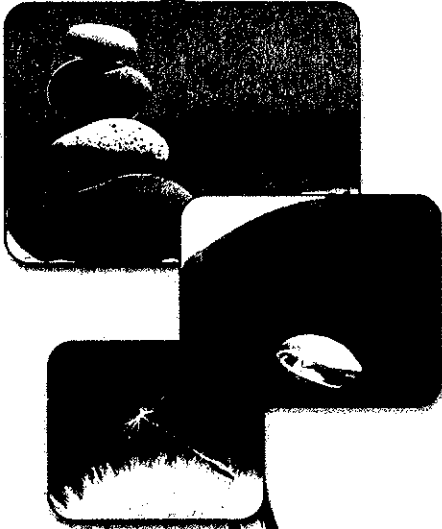
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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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

MWG13-15\_45592

Comp. Ex. 218I



# Table of Contents

Cover Page .....	1
Table of Contents .....	2
Case Narrative .....	3
Detection Summary .....	4
Method Summary .....	5
Sample Summary .....	6
Client Sample Results .....	7
Definitions .....	9
QC Association .....	10
Surrogate Summary .....	13
QC Sample Results .....	14
Chain of Custody .....	20
Receipt Checklists .....	23
Certification Summary .....	25

## Case Narrative

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

TestAmerica Job ID: 500-87368-2

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**Job ID: 500-87368-2**

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3

**Laboratory: TestAmerica Chicago**

**Narrative**

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Job Narrative  
500-87368-2

### Comments

No additional comments.

### Receipt

The samples were received on 11/6/2014 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 2.4° C, 2.8° C, 3.1° C and 4.1° C.

### GC/MS VOA

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

### Metals

Method(s) 6020A: The low level calibration check standard (CCVL) at lines 44 and 56 in AD batch 264940 were outside the acceptance criteria for Sb. The associated sample concentrations were non-detect and therefore not affected by a high bias in the CCVL. (500-87368-1 DU), (500-87368-1 MS), (500-87368-1 MSD), (500-87368-1 SD), (LCS 500-264760/2-A), (MB 500-264760/1-A), MW-05 (500-87368-1), MW-08 (500-87368-5), MW-09 (500-87368-6)

No additional analytical or quality issues were noted, other than those described above or 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 Ash Ponds

TestAmerica Job ID: 500-87368-2

**Client Sample ID: MW-08**

**Lab Sample ID: 500-87368-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0054		0.0010		mg/L	1		6020A	Dissolved
Barium	0.15		0.0025		mg/L	1		6020A	Dissolved
Boron	28		5.0		mg/L	100		6020A	Dissolved
Iron	6.2		0.10		mg/L	1		6020A	Dissolved
Manganese	0.33		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.012		0.0025		mg/L	1		6020A	Dissolved
Sulfate	500		100		mg/L	20		9038	Dissolved
Chloride	30		2.0		mg/L	1		9251	Dissolved
Total Dissolved Solids	1200		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.29		0.10		mg/L	1		SM 4500 F C	Dissolved

4

**Client Sample ID: MW-09**

**Lab Sample ID: 500-87368-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.015		0.0025		mg/L	1		6020A	Dissolved
Boron	13		5.0		mg/L	100		6020A	Dissolved
Iron	0.14		0.10		mg/L	1		6020A	Dissolved
Manganese	0.048		0.0025		mg/L	1		6020A	Dissolved
Nickel	0.0031		0.0020		mg/L	1		6020A	Dissolved
Selenium	0.0048		0.0025		mg/L	1		6020A	Dissolved
Sulfate	430		100		mg/L	20		9038	Dissolved
Chloride	430		50		mg/L	25		9251	Dissolved
Total Dissolved Solids	1400		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.12		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 Ash Ponds

TestAmerica Job ID: 500-87368-2

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

5

### 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 Ash Ponds

TestAmerica Job ID: 500-87368-2

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-87368-5	MW-08	Water	11/05/14 15:20	11/06/14 10:25
500-87368-6	MW-09	Water	11/05/14 16:30	11/06/14 10:25

6

## Client Sample Results

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

TestAmerica Job ID: 500-87368-2

**Client Sample ID: MW-08**

**Lab Sample ID: 500-87368-5**

Date Collected: 11/05/14 15:20

Matrix: Water

Date Received: 11/06/14 10:25

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			11/13/14 21:12	1
Toluene	<0.00050		0.00050		mg/L			11/13/14 21:12	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/13/14 21:12	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/13/14 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 125					11/13/14 21:12	1
Toluene-d8 (Surr)	99		75 - 120					11/13/14 21:12	1
4-Bromofluorobenzene (Surr)	107		75 - 120					11/13/14 21:12	1
Dibromofluoromethane	86		75 - 120					11/13/14 21:12	1

7

Method: 314.0 - Perchlorate (IC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/20/14 03:15	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		11/18/14 10:44	11/18/14 17:45	1
Arsenic	0.0054		0.0010		mg/L		11/18/14 10:44	11/19/14 12:15	1
Barium	0.15		0.0025		mg/L		11/18/14 10:44	11/18/14 17:45	1
Beryllium	<0.0010		0.0010		mg/L		11/18/14 10:44	11/18/14 17:45	1
Boron	28		5.0		mg/L		11/18/14 10:44	11/20/14 13:02	100
Cadmium	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 17:45	1
Chromium	<0.0050		0.0050		mg/L		11/18/14 10:44	11/19/14 12:15	1
Cobalt	<0.0010		0.0010		mg/L		11/18/14 10:44	11/18/14 17:45	1
Copper	<0.0020		0.0020		mg/L		11/18/14 10:44	11/18/14 17:45	1
Iron	6.2		0.10		mg/L		11/18/14 10:44	11/18/14 17:45	1
Lead	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 17:45	1
Manganese	0.33		0.0025		mg/L		11/18/14 10:44	11/18/14 17:45	1
Nickel	<0.0020		0.0020		mg/L		11/18/14 10:44	11/18/14 17:45	1
Selenium	0.012		0.0025		mg/L		11/18/14 10:44	11/18/14 17:45	1
Silver	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 17:45	1
Thallium	<0.0020		0.0020		mg/L		11/18/14 10:44	11/18/14 17:45	1
Vanadium	<0.0050		0.0050		mg/L		11/18/14 10:44	11/18/14 17:45	1
Zinc	<0.020		0.020		mg/L		11/18/14 10:44	11/18/14 17:45	1

Method: 7470A - Mercury (CVAA) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/10/14 11:45	11/11/14 09:05	1

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/12/14 11:50	11/12/14 15:00	1
Sulfate	500		100		mg/L			11/18/14 09:21	20
Chloride	30		2.0		mg/L			11/12/14 23:14	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/14/14 08:59	1
Total Dissolved Solids	1200		10		mg/L			11/10/14 21:27	1
Fluoride	0.29		0.10		mg/L			11/14/14 14:59	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			11/06/14 12:59	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/11/14 14:46	1

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## Client Sample Results

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

TestAmerica Job ID: 500-87368-2

**Client Sample ID: MW-09**

**Lab Sample ID: 500-87368-6**

Date Collected: 11/05/14 16:30

Matrix: Water

Date Received: 11/06/14 10:25

### 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			11/13/14 21:39	1
Toluene	<0.00050		0.00050		mg/L			11/13/14 21:39	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/13/14 21:39	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/13/14 21:39	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	98		75 - 125					11/13/14 21:39	1
Toluene-d8 (Surr)	100		75 - 120					11/13/14 21:39	1
4-Bromofluorobenzene (Surr)	107		75 - 120					11/13/14 21:39	1
Dibromofluoromethane	87		75 - 120					11/13/14 21:39	1

### Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			11/20/14 03:31	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		11/18/14 10:44	11/18/14 17:49	1
Arsenic	<0.0010		0.0010		mg/L		11/18/14 10:44	11/19/14 12:17	1
Barium	0.015		0.0025		mg/L		11/18/14 10:44	11/18/14 17:49	1
Beryllium	<0.0010		0.0010		mg/L		11/18/14 10:44	11/18/14 17:49	1
Boron	13		5.0		mg/L		11/18/14 10:44	11/20/14 13:03	100
Cadmium	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 17:49	1
Chromium	<0.0050		0.0050		mg/L		11/18/14 10:44	11/19/14 12:17	1
Cobalt	<0.0010		0.0010		mg/L		11/18/14 10:44	11/18/14 17:49	1
Copper	<0.0020		0.0020		mg/L		11/18/14 10:44	11/18/14 17:49	1
Iron	0.14		0.10		mg/L		11/18/14 10:44	11/18/14 17:49	1
Lead	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 17:49	1
Manganese	0.048		0.0025		mg/L		11/18/14 10:44	11/18/14 17:49	1
Nickel	0.0031		0.0020		mg/L		11/18/14 10:44	11/18/14 17:49	1
Selenium	0.0048		0.0025		mg/L		11/18/14 10:44	11/18/14 17:49	1
Silver	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 17:49	1
Thallium	<0.0020		0.0020		mg/L		11/18/14 10:44	11/18/14 17:49	1
Vanadium	<0.0050		0.0050		mg/L		11/18/14 10:44	11/18/14 17:49	1
Zinc	<0.020		0.020		mg/L		11/18/14 10:44	11/18/14 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		11/10/14 11:45	11/11/14 09:07	1

### General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		11/12/14 11:50	11/12/14 15:01	1
Sulfate	430		100		mg/L			11/18/14 09:21	20
Chloride	430		50		mg/L			11/13/14 00:36	25
Nitrogen, Nitrate	<0.10		0.10		mg/L			11/14/14 08:59	1
Total Dissolved Solids	1400		10		mg/L			11/10/14 21:29	1
Fluoride	0.12		0.10		mg/L			11/14/14 15:03	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			11/06/14 13:00	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/11/14 14:48	1

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7



## Definitions/Glossary

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

TestAmerica Job ID: 500-87368-2

### Qualifiers

#### Metals

Qualifier	Qualifier Description
A	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

#### General Chemistry

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.
n	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)

8

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## QC Association Summary

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

TestAmerica Job ID: 500-87368-2

### GC/MS VOA

#### Analysis Batch: 264055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Total/NA	Water	8260B	
500-87368-6	MW-09	Total/NA	Water	8260B	
LCS 500-264055/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-264055/6	Method Blank	Total/NA	Water	8260B	

### HPLC/IC

#### Analysis Batch: 58510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Total/NA	Water	314.0	
500-87368-6	MW-09	Total/NA	Water	314.0	
LCS 320-58510/7	Lab Control Sample	Total/NA	Water	314.0	
MB 320-58510/6	Method Blank	Total/NA	Water	314.0	
MRL 320-58510/5	Lab Control Sample	Total/NA	Water	314.0	

9

### Metals

#### Prep Batch: 263414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	7470A	
500-87368-6	MW-09	Dissolved	Water	7470A	
LCS 500-263414/13-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-263414/12-A	Method Blank	Total/NA	Water	7470A	

#### Analysis Batch: 263657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	7470A	263414
500-87368-6	MW-09	Dissolved	Water	7470A	263414
LCS 500-263414/13-A	Lab Control Sample	Total/NA	Water	7470A	263414
MB 500-263414/12-A	Method Blank	Total/NA	Water	7470A	263414

#### Prep Batch: 264760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	Soluble Metals	
500-87368-6	MW-09	Dissolved	Water	Soluble Metals	
LCS 500-264760/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
MB 500-264760/1-A	Method Blank	Soluble	Water	Soluble Metals	

#### Analysis Batch: 264940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	6020A	264760
500-87368-6	MW-09	Dissolved	Water	6020A	264760
LCS 500-264760/2-A	Lab Control Sample	Soluble	Water	6020A	264760
MB 500-264760/1-A	Method Blank	Soluble	Water	6020A	264760

#### Analysis Batch: 265037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	6020A	264760
500-87368-6	MW-09	Dissolved	Water	6020A	264760
LCS 500-264760/2-A	Lab Control Sample	Soluble	Water	6020A	264760

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MWG13-15\_45601  
 11/20/2014

## QC Association Summary

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

TestAmerica Job ID: 500-87368-2

### Metals (Continued)

#### Analysis Batch: 265037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-264760/1-A	Method Blank	Soluble	Water	6020A	264760

#### Analysis Batch: 265239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	6020A	264760
500-87368-6	MW-09	Dissolved	Water	6020A	264760
LCS 500-264760/2-A	Lab Control Sample	Soluble	Water	6020A	264760
MB 500-264760/1-A	Method Blank	Soluble	Water	6020A	264760

### General Chemistry

#### Analysis Batch: 263001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	SM 4500 NO2 B	
500-87368-6	MW-09	Dissolved	Water	SM 4500 NO2 B	
LCS 500-263001/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-263001/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

#### Analysis Batch: 263521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	SM 2540C	
500-87368-6	MW-09	Dissolved	Water	SM 2540C	
LCS 500-263521/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-263521/1	Method Blank	Total/NA	Water	SM 2540C	

#### Analysis Batch: 263687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	SM 4500 NO3 F	
500-87368-6	MW-09	Dissolved	Water	SM 4500 NO3 F	
LCS 500-263687/4	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-263687/3	Method Blank	Total/NA	Water	SM 4500 NO3 F	

#### Prep Batch: 263824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	9010B	
500-87368-6	MW-09	Dissolved	Water	9010B	
LCS 500-263824/2-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-263824/1-A	Method Blank	Total/NA	Water	9010B	

#### Analysis Batch: 263880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	9014	263824
500-87368-6	MW-09	Dissolved	Water	9014	263824
LCS 500-263824/2-A	Lab Control Sample	Total/NA	Water	9014	263824
MB 500-263824/1-A	Method Blank	Total/NA	Water	9014	263824

#### Analysis Batch: 263938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	9251	
500-87368-6	MW-09	Dissolved	Water	9251	

TestAmerica Chicago

MWG13-15\_45602  
11/20/2014

## QC Association Summary

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

TestAmerica Job ID: 500-87368-2

### General Chemistry (Continued)

#### Analysis Batch: 263938 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-6 MS	MW-09	Dissolved	Water	9251	
500-87368-6 MSD	MW-09	Dissolved	Water	9251	
LCS 500-263938/5	Lab Control Sample	Total/NA	Water	9251	
MB 500-263938/4	Method Blank	Total/NA	Water	9251	

#### Analysis Batch: 264200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	Nitrate by calc	
500-87368-6	MW-09	Dissolved	Water	Nitrate by calc	

#### Analysis Batch: 264378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	SM 4500 F C	
500-87368-6	MW-09	Dissolved	Water	SM 4500 F C	
LCS 500-264378/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-264378/31	Method Blank	Total/NA	Water	SM 4500 F C	

#### Analysis Batch: 264746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-87368-5	MW-08	Dissolved	Water	9038	
500-87368-6	MW-09	Dissolved	Water	9038	
LCS 500-264746/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-264746/3	Method Blank	Total/NA	Water	9038	

9

# Surrogate Summary

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

TestAmerica Job ID: 500-87368-2

## 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 (75-125)	TOL (75-120)	BFB (75-120)	DBFM (75-120)
500-87368-5	MW-08	94	99	107	86
500-87368-6	MW-09	98	100	107	87
LCS 500-264055/4	Lab Control Sample	94	100	107	90
MB 500-264055/6	Method Blank	95	101	108	87

### Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

10

TestAmerica Chicago

## QC Sample Results

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

TestAmerica Job ID: 500-87368-2

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

Lab Sample ID: MB 500-264055/6  
Matrix: Water  
Analysis Batch: 264055

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			11/13/14 15:03	1
Toluene	<0.00050		0.00050		mg/L			11/13/14 15:03	1
Ethylbenzene	<0.00050		0.00050		mg/L			11/13/14 15:03	1
Xylenes, Total	<0.0010		0.0010		mg/L			11/13/14 15:03	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	95		75 - 125		11/13/14 15:03	1
Toluene-d8 (Surr)	101		75 - 120		11/13/14 15:03	1
4-Bromofluorobenzene (Surr)	108		75 - 120		11/13/14 15:03	1
Dibromofluoromethane	87		75 - 120		11/13/14 15:03	1

Lab Sample ID: LCS 500-264055/4  
Matrix: Water  
Analysis Batch: 264055

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.0500	0.0508		mg/L		102	75 - 120
Ethylbenzene	0.0500	0.0470		mg/L		94	75 - 120
Xylenes, Total	0.100	0.0992		mg/L		99	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		75 - 125
Toluene-d8 (Surr)	100		75 - 120
4-Bromofluorobenzene (Surr)	107		75 - 120
Dibromofluoromethane	90		75 - 120

### Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-58510/6  
Matrix: Water  
Analysis Batch: 58510

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			11/19/14 23:09	1

Lab Sample ID: LCS 320-58510/7  
Matrix: Water  
Analysis Batch: 58510

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

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

TestAmerica Chicago

MWG13-15\_45605  
11/20/2014

## QC Sample Results

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

TestAmerica Job ID: 500-87368-2

### Method: 314.0 - Perchlorate (IC) (Continued)

Lab Sample ID: MRL 320-58510/5				Client Sample ID: Lab Control Sample					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 58510									
Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Perchlorate	4.00	4.24		ug/L		106	75 - 125		

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

Lab Sample ID: MB 500-264760/1-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Soluble					
Analysis Batch: 264940				Prep Batch: 264760					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^	0.0030		mg/L		11/18/14 10:44	11/18/14 16:52	1
Barium	<0.0025		0.0025		mg/L		11/18/14 10:44	11/18/14 16:52	1
Beryllium	<0.0010		0.0010		mg/L		11/18/14 10:44	11/18/14 16:52	1
Cadmium	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 16:52	1
Cobalt	<0.0010		0.0010		mg/L		11/18/14 10:44	11/18/14 16:52	1
Copper	<0.0020		0.0020		mg/L		11/18/14 10:44	11/18/14 16:52	1
Iron	<0.10		0.10		mg/L		11/18/14 10:44	11/18/14 16:52	1
Lead	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 16:52	1
Manganese	<0.0025		0.0025		mg/L		11/18/14 10:44	11/18/14 16:52	1
Nickel	<0.0020		0.0020		mg/L		11/18/14 10:44	11/18/14 16:52	1
Selenium	<0.0025		0.0025		mg/L		11/18/14 10:44	11/18/14 16:52	1
Silver	<0.00050		0.00050		mg/L		11/18/14 10:44	11/18/14 16:52	1
Thallium	<0.0020		0.0020		mg/L		11/18/14 10:44	11/18/14 16:52	1
Vanadium	<0.0050		0.0050		mg/L		11/18/14 10:44	11/18/14 16:52	1
Zinc	<0.020		0.020		mg/L		11/18/14 10:44	11/18/14 16:52	1



Lab Sample ID: MB 500-264760/1-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Soluble					
Analysis Batch: 265037				Prep Batch: 264760					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010		mg/L		11/18/14 10:44	11/19/14 11:42	1
Chromium	<0.0050		0.0050		mg/L		11/18/14 10:44	11/19/14 11:42	1

Lab Sample ID: MB 500-264760/1-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Soluble					
Analysis Batch: 265239				Prep Batch: 264760					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050		mg/L		11/18/14 10:44	11/20/14 12:48	1

Lab Sample ID: LCS 500-264760/2-A				Client Sample ID: Lab Control Sample					
Matrix: Water				Prep Type: Soluble					
Analysis Batch: 264940				Prep Batch: 264760					
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Antimony	0.500	0.441	^	mg/L		88	80 - 120		
Barium	0.500	0.477		mg/L		95	80 - 120		
Beryllium	0.0500	0.0445		mg/L		89	80 - 120		
Cadmium	0.0500	0.0511		mg/L		102	80 - 120		

TestAmerica Chicago

## QC Sample Results

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

TestAmerica Job ID: 500-87368-2

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

Lab Sample ID: LCS 500-264760/2-A  
 Matrix: Water  
 Analysis Batch: 264940

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble  
 Prep Batch: 264760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Cobalt	0.500	0.448		mg/L		90	80 - 120	
Copper	0.250	0.233		mg/L		93	80 - 120	
Iron	1.00	1.06		mg/L		106	80 - 120	
Lead	0.100	0.102		mg/L		102	80 - 120	
Manganese	0.500	0.459		mg/L		92	80 - 120	
Nickel	0.500	0.453		mg/L		91	80 - 120	
Selenium	0.100	0.0966		mg/L		97	80 - 120	
Silver	0.0500	0.0491		mg/L		98	80 - 120	
Thallium	0.100	0.104		mg/L		104	80 - 120	
Vanadium	0.500	0.452		mg/L		90	80 - 120	
Zinc	0.500	0.477		mg/L		95	80 - 120	



Lab Sample ID: LCS 500-264760/2-A  
 Matrix: Water  
 Analysis Batch: 265037

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble  
 Prep Batch: 264760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Arsenic	0.100	0.119		mg/L		119	80 - 120	
Chromium	0.200	0.237		mg/L		119	80 - 120	

Lab Sample ID: LCS 500-264760/2-A  
 Matrix: Water  
 Analysis Batch: 265239

Client Sample ID: Lab Control Sample  
 Prep Type: Soluble  
 Prep Batch: 264760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Boron	1.00	1.19		mg/L		119	80 - 120	

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

Lab Sample ID: MB 500-263414/12-A  
 Matrix: Water  
 Analysis Batch: 263657

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 263414

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		11/10/14 11:45	11/11/14 08:35	1

Lab Sample ID: LCS 500-263414/13-A  
 Matrix: Water  
 Analysis Batch: 263657

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 263414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Mercury	0.00200	0.00211		mg/L		106	80 - 120	

TestAmerica Chicago



## QC Sample Results

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

TestAmerica Job ID: 500-87368-2

### Method: 9014 - Cyanide

Lab Sample ID: MB 500-263824/1-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 263880						Prep Batch: 263824			
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	<0.010		0.010		mg/L		11/12/14 11:50	11/12/14 14:55	1

Lab Sample ID: LCS 500-263824/2-A						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 263880						Prep Batch: 263824			
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier				Limits		
Cyanide, Total	0.100	0.106		mg/L		106	80 - 120		

### Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-264746/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 264746									
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	<5.0		5.0		mg/L			11/18/14 09:21	1



Lab Sample ID: LCS 500-264746/4						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 264746									
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier				Limits		
Sulfate	20.0	18.9		mg/L		94	80 - 120		

### Method: 9251 - Chloride

Lab Sample ID: MB 500-263938/4						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 263938									
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	<2.0		2.0		mg/L			11/12/14 23:08	1

Lab Sample ID: LCS 500-263938/5						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 263938									
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier				Limits		
Chloride	50.0	53.3		mg/L		107	80 - 120		

Lab Sample ID: 500-87368-6 MS						Client Sample ID: MW-09			
Matrix: Water						Prep Type: Dissolved			
Analysis Batch: 263938									
Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Chloride	430		50.0	359	4	mg/L		-136	75 - 125

TestAmerica Chicago

## QC Sample Results

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

TestAmerica Job ID: 500-87368-2

### Method: 9251 - Chloride (Continued)

Lab Sample ID: 500-87368-6 MSD  
 Matrix: Water  
 Analysis Batch: 263938

Client Sample ID: MW-09  
 Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	430		50.0	365	4	mg/L		-123	75 - 125	2	20

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

Lab Sample ID: MB 500-263521/1  
 Matrix: Water  
 Analysis Batch: 263521

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			11/10/14 21:07	1

Lab Sample ID: LCS 500-263521/2  
 Matrix: Water  
 Analysis Batch: 263521

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	258		mg/L		103	80 - 120

### Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-264378/31  
 Matrix: Water  
 Analysis Batch: 264378

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10		mg/L			11/14/14 14:10	1

Lab Sample ID: LCS 500-264378/32  
 Matrix: Water  
 Analysis Batch: 264378

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	11.4		mg/L		114	80 - 120

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

Lab Sample ID: MB 500-263001/3  
 Matrix: Water  
 Analysis Batch: 263001

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrite	<0.020		0.020		mg/L			11/06/14 12:55	1

TestAmerica Chicago

MWG13-15\_45609  
 11/20/2014

## QC Sample Results

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

TestAmerica Job ID: 500-87368-2

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

Lab Sample ID: LCS 500-263001/4  
 Matrix: Water  
 Analysis Batch: 263001

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	0.101		mg/L		101	80 - 120

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

Lab Sample ID: MB 500-263687/3  
 Matrix: Water  
 Analysis Batch: 263687

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

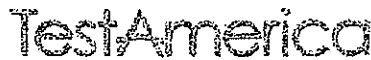
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			11/11/14 14:14	1

Lab Sample ID: LCS 500-263687/4  
 Matrix: Water  
 Analysis Batch: 263687

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	1.03		mg/L		103	80 - 120





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  
 Phone: 262-781-0475  
 Fax:  
 Email:

**Bill To:**  
 Contact:  
 Company:  
 Address:  
 Phone:  
 Fax:  
 PO #:

Lab Lot # 500-87368  
 Package Sealed Yes No  
 Samples Sealed Yes No  
 Received on Ice Yes No  
 Samples Intact Yes No N/A  
 Temperature °C of Cooler 4.1

Sampler Name:		Client Project #		Refrg #		Within Hold Time		Preserv. Indicated						
Ian John Howieson		12313.2		# / Cont.		Yes No		Yes No N/A						
Project Name:		TestAmerica Project Number:		Volume		pH Check OK		Res CL <sub>2</sub> Check OK						
Waukegan Station Ash Ponds		50004763		Preserv.		Yes No		Yes No N/A						
Project Location:		Date Required		Matrix	# of Containers	18 Metals + Hg, dissolved	Cl, TDS, SO <sub>4</sub> , F <sub>l</sub> , dissolved	NO <sub>2</sub> , dissolved	NO <sub>3</sub> +NO <sub>2</sub> , dissolved	Cyanide, dissolved	BTEX	Perchlorate	Sample Labels and COC Agree	
Waukegan, IL		Hard Copy: ___/___/___											Yes No	
Lab PIV:		Fax:		Additional Analyses / Remarks										
Bonnie Stadelmann		___/___/___												
Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Time										
5		MW-08	11/5/2014	15:20	W	1			X					
6		MW-09	11/5/2014	16:30	W	1			X					

12

RELINQUISHED BY: <i>[Signature]</i>	COMPANY: KPRG	DATE: 11-05-14	TIME: 18:15	RECEIVED BY: <i>[Signature]</i>	COMPANY: TAL	DATE: 11/6/14	TIME: 1025
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- Matrix Key**  
 WW = Wastewater SE = Sediment  
 W = Water SO = Solid  
 S = Soil DL = Drum Liquid  
 SL = Sludge DS = Drum Solid  
 MS = Miscellaneous L = Leachate  
 OL = Oil W = Wipe  
 A = Air O = \_\_\_\_\_

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

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

COMMENTS:  
 Date Received \_\_\_/\_\_\_/\_\_\_  
 Courier:  
 Hand Delivered   
 Bill of Lading:



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

<b>Report To:</b>		<b>Bill To:</b>	
Contact: Rich Gnat	Contact:		Lab Lot # 500-87368
Company: KPRG & Associates Inc.	Company:		Package Sealed Yes No
Address: 14665 W. Lisbon Rd. Suite 2B Brookfield, WI	Address:		Samples Sealed Yes No
Phone: 262-781-0475	Phone:		Received on Ice Yes No
Fax:	Fax:		Samples Intact Yes No N/A
Email:	PO #:		Temperature °C of Cooler

Sampler Name: Ian John Howteson		Client Project # 12313.2		Refrg # # / Cont.		Within Hold Time Yes No		Preserv. Indicated Yes No N/A								
Project Name: Waukegan Station Ash Ponds		TestAmerica Project Number: 50004763		Volume Preserv.		pH Check OK Yes No		Res CL <sub>2</sub> Check OK Yes No N/A								
Project Location: Waukegan, IL		Date Required Hard Copy: ___/___/___		Matrix	# of Containers	18 Metals + Hg, dissolved	Cl, TDS, SO <sub>4</sub> , F <sub>l</sub> , dissolved	NO <sub>2</sub> , dissolved	NO <sub>3</sub> +NO <sub>2</sub> , dissolved	Cyanide, dissolved	BTEX	Perchlorate	Sample Labels and COC Agree Yes No		COC not present	
Lab PM: Bonnie Stadelmann		Fax: ___/___/___											Additional Analyses / Remarks			
Laboratory ID	MS-MSD	Client Sample ID	Sampling Date Time													
5		MW-08	11/5/2014	15:20	W	8	X	X		X	X	X	X			
6		MW-09	11/5/2014	16:30	W	8	X	X		X	X	X	X			

12

RELINQUISHED BY: <i>[Signature]</i>	COMPANY: KPRG	DATE: 11-07-14	TIME: 12:28	RECEIVED BY: <i>[Signature]</i>	COMPANY: TH	DATE: 11-7-14	TIME: 1:28
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

- |  |   |  |
|--|---|--|
| <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<br>SE = Sediment<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 ___/___/___
	Courier:
	Hand Delivered <input type="checkbox"/>
	Bill of Lading:

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

### Chain of Custody Record



TestAmerica  
 THE LEADER IN ENVIRONMENTAL TESTING

<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM Stadelmann, Bonnie M		Carrier Tracking No(s)	COC No 500-56041 1	
Client Contact Shipping/Receiving		Phone	E-Mail bonnie.stadelmann@testamercainc.com			Page Page 1 of 1	
Company TestAmerica Laboratories, Inc.			<b>Analysis Requested</b>				Job # 500-87368-2
Address 880 Riverside Parkway,		Due Date Requested: 11/18/2014		Field Filtered Sample (Yes or No)	514.0) Perchlorate	Preservation Codes: A - HCl                      V - Hexane B - NaOH                  W - None C - Zn Acetate          O - AsNaO2 D - Nitric Acid          P - Na2O4S E - NaHSO4              Q - Na2SO3 F - MeOH                 R - Na2S2SO3 G - Amchlor              S - H2SO4 H - Ascorbic Acid      T - TSP Dodecahydrate I - Ice                      U - Acetone J - DI Water             V - MCAA K - EDTA                 W - ph 4-5 L - EDA                    Z - other (specify)	
City West Sacramento		TAT Requested (days):					
State, Zip CA, 95605		PO #					
Phone 916-373-5800(Tel) 916-372-1059(Fax)		W/O #					
Project Name Waukegan Station Ash Ponds		Project # 50004763					
Site Ian John Howleson		SSOW#					
<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=unspecified)</b>	<b>Special Instructions/Note:</b>	
MW-08 (500-87368-5)		11/5/14	15:20 Central		Water	X	
MW-09 (500-87368-8)		11/5/14	18:30 Central		Water	X	
<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)		Special Instructions/QC Requirements:					
Empty Kit Relinquished by		Date:	Time:	Method of Storage			
Relinquished by: <i>[Signature]</i>	Date/Time: 11/7/14 1600	Company: TAL	Received by: <i>[Signature]</i>	Date/Time: 11-14 930	Company: TACUS		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:		
Custody Seals Intact Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: (A cool 11.16.14) Temp in air bill form					

Page 22 of 25

MWG-13-15\_45613  
 11/20/2014

## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-87368-2

**Login Number: 87368**  
**List Number: 1**  
**Creator: Kelsey, Shawn M**

**List Source: TestAmerica Chicago**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.1,2.4,3.1,2.8
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.	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

13

## Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-87368-2

Login Number: 87368

List Source: TestAmerica Sacramento

List Number: 2

List Creation: 11/08/14 11:29 AM

Creator: Hytrek, Cheryl

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

13



## Certification Summary

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

TestAmerica Job ID: 500-87368-2

### Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Illinois	NELAP	5	100201	04-30-15

### 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	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-14
Arizona	State Program	9	AZ0708	08-11-15
Arkansas DEQ	State Program	6	88-0691	06-17-15
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-15
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-15
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14 *
Louisiana	NELAP	6	30612	06-30-15
Michigan	State Program	5	9947	01-31-15
Nebraska	State Program	7	NE-OS-22-13	01-29-15
Nevada	State Program	9	CA44	07-31-15
New Jersey	NELAP	2	CA005	06-30-15
New York	NELAP	2	11666	04-01-15
Oregon	NELAP	10	CA200005	01-29-15
Oregon	NELAP Secondary AB	10	E87570	06-30-15
Pennsylvania	NELAP	3	9947	03-31-15
Texas	NELAP	6	T104704399-08-TX	05-31-15
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-16
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-15
West Virginia (DW)	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	01-29-15

14

\* Certification renewal pending - certification considered valid.

