

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: 500-77103-2
Client Project/Site: Waukegan Station Ash Ponds

For:
KPRG and Associates, Inc.
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Suite 2B
Brookfield, Wisconsin 53005

Attn: Richard Gnat

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

MWG13-15_45513

COMP. Ex. 216I

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Case Narrative

TestAmerica Job ID: 500-77103-2

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

Job ID: 500-77103-2

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Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-77103-2

Comments

No additional comments.

Receipt

The samples were received on 5/16/2014 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.6° C, 3.8° C and 4.2° 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 Ash Ponds

TestAmerica Job ID: 500-77103-2

Client Sample ID: MW-08

Lab Sample ID: 500-77103-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0049		0.0010		mg/L	1		6020A	Dissolved
Barium	0.083		0.0025		mg/L	1		6020A	Dissolved
Boron	19		5.0		mg/L	100		6020A	Dissolved
Iron	5.0		0.10		mg/L	1		6020A	Dissolved
Manganese	0.31		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.016		0.0025		mg/L	1		6020A	Dissolved
Sulfate	250		100		mg/L	20		9038	Dissolved
Chloride	50		2.0		mg/L	1		9251	Dissolved
Total Dissolved Solids	1000		10		mg/L	1		SM 2540C	Dissolved
Fluoride	0.30		0.10		mg/L	1		SM 4500 F C	Dissolved

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Client Sample ID: MW-09

Lab Sample ID: 500-77103-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0012		0.0010		mg/L	1		6020A	Dissolved
Barium	0.027		0.0025		mg/L	1		6020A	Dissolved
Boron	16		5.0		mg/L	100		6020A	Dissolved
Iron	0.81		0.10		mg/L	1		6020A	Dissolved
Manganese	0.14		0.0025		mg/L	1		6020A	Dissolved
Selenium	0.014		0.0025		mg/L	1		6020A	Dissolved
Sulfate	360		100		mg/L	20		9038	Dissolved
Chloride	370		50		mg/L	25		9251	Dissolved
Total Dissolved Solids	1600		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 Ash Ponds

TestAmerica Job ID: 500-77103-2

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

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: 500-77103-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-77103-10	MW-08	Water	05/15/14 13:30	05/16/14 15:15
500-77103-11	MW-09	Water	05/15/14 14:48	05/16/14 15:15

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Client Sample Results

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

TestAmerica Job ID: 500-77103-2

Client Sample ID: MW-08

Lab Sample ID: 500-77103-10

Date Collected: 05/15/14 13:30

Matrix: Water

Date Received: 05/16/14 15:15

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			05/19/14 23:56	1
Toluene	<0.00050		0.00050		mg/L			05/19/14 23:56	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/19/14 23:56	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/19/14 23:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125					05/19/14 23:56	1
Toluene-d8 (Surr)	99		75 - 120					05/19/14 23:56	1
4-Bromofluorobenzene (Surr)	101		75 - 120					05/19/14 23:56	1
Dibromofluoromethane	93		75 - 120					05/19/14 23:56	1

Method: 314.0 - Perchlorate (IC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/02/14 19:38	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		05/20/14 10:06	05/20/14 11:41	1
Arsenic	0.0049		0.0010		mg/L		05/20/14 10:06	05/20/14 11:41	1
Barium	0.083		0.0025		mg/L		05/20/14 10:06	05/20/14 11:41	1
Beryllium	<0.0010		0.0010		mg/L		05/20/14 10:06	05/20/14 11:41	1
Boron	19		5.0		mg/L		05/20/14 10:06	05/21/14 11:27	100
Cadmium	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 11:41	1
Chromium	<0.0050		0.0050		mg/L		05/20/14 10:06	05/20/14 11:41	1
Cobalt	<0.0010		0.0010		mg/L		05/20/14 10:06	05/20/14 11:41	1
Copper	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 11:41	1
Iron	5.0		0.10		mg/L		05/20/14 10:06	05/20/14 11:41	1
Lead	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 11:41	1
Manganese	0.31		0.0025		mg/L		05/20/14 10:06	05/20/14 11:41	1
Nickel	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 11:41	1
Selenium	0.016		0.0025		mg/L		05/20/14 10:06	05/20/14 11:41	1
Silver	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 11:41	1
Thallium	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 11:41	1
Vanadium	<0.0050		0.0050		mg/L		05/20/14 10:06	05/20/14 11:41	1
Zinc	<0.020		0.020		mg/L		05/20/14 10:06	05/20/14 11:41	1

Method: 7470A - Mercury (CVAA) - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/14 12:45	05/22/14 13:18	1

General Chemistry - Dissolved									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/23/14 13:20	05/23/14 17:58	1
Sulfate	250		100		mg/L			06/02/14 07:16	20
Chloride	50		2.0		mg/L			05/21/14 21:59	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/30/14 10:23	1
Total Dissolved Solids	1000		10		mg/L			05/22/14 23:27	1
Fluoride	0.30		0.10		mg/L			05/24/14 20:13	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/16/14 21:23	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/23/14 15:14	1

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Client Sample Results

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

TestAmerica Job ID: 500-77103-2

Client Sample ID: MW-09

Lab Sample ID: 500-77103-11

Date Collected: 05/15/14 14:48

Matrix: Water

Date Received: 05/16/14 15:15

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			05/20/14 00:21	1
Toluene	<0.00050		0.00050		mg/L			05/20/14 00:21	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/20/14 00:21	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/20/14 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 125					05/20/14 00:21	1
Toluene-d8 (Surr)	100		75 - 120					05/20/14 00:21	1
4-Bromofluorobenzene (Surr)	100		75 - 120					05/20/14 00:21	1
Dibromofluoromethane	94		75 - 120					05/20/14 00:21	1

Method: 314.0 - Perchlorate (IC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.0040		0.0040		mg/L			06/02/14 19:53	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		05/20/14 10:06	05/20/14 11:44	1
Arsenic	0.0012		0.0010		mg/L		05/20/14 10:06	05/20/14 11:44	1
Barium	0.027		0.0025		mg/L		05/20/14 10:06	05/20/14 11:44	1
Beryllium	<0.0010		0.0010		mg/L		05/20/14 10:06	05/20/14 11:44	1
Boron	16		5.0		mg/L		05/20/14 10:06	05/21/14 11:31	100
Cadmium	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 11:44	1
Chromium	<0.0050		0.0050		mg/L		05/20/14 10:06	05/20/14 11:44	1
Cobalt	<0.0010		0.0010		mg/L		05/20/14 10:06	05/20/14 11:44	1
Copper	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 11:44	1
Iron	0.81		0.10		mg/L		05/20/14 10:06	05/20/14 11:44	1
Lead	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 11:44	1
Manganese	0.14		0.0025		mg/L		05/20/14 10:06	05/20/14 11:44	1
Nickel	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 11:44	1
Selenium	0.014		0.0025		mg/L		05/20/14 10:06	05/20/14 11:44	1
Silver	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 11:44	1
Thallium	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 11:44	1
Vanadium	<0.0050		0.0050		mg/L		05/20/14 10:06	05/20/14 11:44	1
Zinc	<0.020		0.020		mg/L		05/20/14 10:06	05/20/14 11:44	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/14 12:45	05/22/14 13:20	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/23/14 13:20	05/23/14 17:58	1
Sulfate	360		100		mg/L			06/02/14 07:17	20
Chloride	370		50		mg/L			05/21/14 22:36	25
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/30/14 10:23	1
Total Dissolved Solids	1600		10		mg/L			05/22/14 23:29	1
Fluoride	0.15		0.10		mg/L			05/24/14 20:16	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/16/14 21:20	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/23/14 15:16	1

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Definitions/Glossary

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

TestAmerica Job ID: 500-77103-2

Glossary

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

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QC Association Summary

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

TestAmerica Job ID: 500-77103-2

GC/MS VOA

Analysis Batch: 236927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Total/NA	Water	8260B	
500-77103-11	MW-09	Total/NA	Water	8260B	
500-77103-11 MS	MW-09	Total/NA	Water	8260B	
500-77103-11 MSD	MW-09	Total/NA	Water	8260B	
LCS 500-236927/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-236927/6	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 43721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Total/NA	Water	314.0	
500-77103-11	MW-09	Total/NA	Water	314.0	
LCS 320-43721/15	Lab Control Sample	Total/NA	Water	314.0	
MB 320-43721/14	Method Blank	Total/NA	Water	314.0	
MRL 320-43721/13	Lab Control Sample	Total/NA	Water	314.0	

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Metals

Prep Batch: 237089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	Soluble Metals	
500-77103-11	MW-09	Dissolved	Water	Soluble Metals	
LCS 500-237089/2-A	Lab Control Sample	Soluble	Water	Soluble Metals	
MB 500-237089/1-A	Method Blank	Soluble	Water	Soluble Metals	

Analysis Batch: 237146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	6020A	237089
500-77103-11	MW-09	Dissolved	Water	6020A	237089
LCS 500-237089/2-A	Lab Control Sample	Soluble	Water	6020A	237089
MB 500-237089/1-A	Method Blank	Soluble	Water	6020A	237089

Prep Batch: 237344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	7470A	
500-77103-11	MW-09	Dissolved	Water	7470A	
LCS 500-237344/13-A	Lab Control Sample	Total/NA	Water	7470A	
MB 500-237344/12-A	Method Blank	Total/NA	Water	7470A	

Analysis Batch: 237345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	6020A	237089
500-77103-11	MW-09	Dissolved	Water	6020A	237089
LCS 500-237089/2-A	Lab Control Sample	Soluble	Water	6020A	237089
MB 500-237089/1-A	Method Blank	Soluble	Water	6020A	237089

Analysis Batch: 237550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	7470A	237344

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QC Association Summary

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

TestAmerica Job ID: 500-77103-2

Metals (Continued)

Analysis Batch: 237550 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-11	MW-09	Dissolved	Water	7470A	237344
LCS 500-237344/13-A	Lab Control Sample	Total/NA	Water	7470A	237344
MB 500-237344/12-A	Method Blank	Total/NA	Water	7470A	237344

General Chemistry

Analysis Batch: 236770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	SM 4500 NO2 B	
500-77103-11	MW-09	Dissolved	Water	SM 4500 NO2 B	
500-77103-11 MS	MW-09	Dissolved	Water	SM 4500 NO2 B	
500-77103-11 MSD	MW-09	Dissolved	Water	SM 4500 NO2 B	
LCS 500-236770/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	
MB 500-236770/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	

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Analysis Batch: 237426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	9251	
500-77103-11	MW-09	Dissolved	Water	9251	
LCS 500-237426/5	Lab Control Sample	Total/NA	Water	9251	
MB 500-237426/4	Method Blank	Total/NA	Water	9251	

Analysis Batch: 237647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	SM 2540C	
500-77103-11	MW-09	Dissolved	Water	SM 2540C	
LCS 500-237647/2	Lab Control Sample	Total/NA	Water	SM 2540C	
MB 500-237647/1	Method Blank	Total/NA	Water	SM 2540C	

Prep Batch: 237730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	9010B	
500-77103-11	MW-09	Dissolved	Water	9010B	
LCS 500-237730/26-A	Lab Control Sample	Total/NA	Water	9010B	
MB 500-237730/25-A	Method Blank	Total/NA	Water	9010B	

Analysis Batch: 237791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	SM 4500 NO3 F	
500-77103-11	MW-09	Dissolved	Water	SM 4500 NO3 F	
LCS 500-237791/4	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	
MB 500-237791/3	Method Blank	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 237817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	9014	237730
500-77103-11	MW-09	Dissolved	Water	9014	237730
LCS 500-237730/26-A	Lab Control Sample	Total/NA	Water	9014	237730
MB 500-237730/25-A	Method Blank	Total/NA	Water	9014	237730

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MWG13-15_45523
6/3/2014

QC Association Summary

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

TestAmerica Job ID: 500-77103-2

General Chemistry (Continued)

Analysis Batch: 237938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	SM 4500 F C	
500-77103-11	MW-09	Dissolved	Water	SM 4500 F C	
LCS 500-237938/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
MB 500-237938/3	Method Blank	Total/NA	Water	SM 4500 F C	

Analysis Batch: 238688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	Nitrate by calc	
500-77103-11	MW-09	Dissolved	Water	Nitrate by calc	

Analysis Batch: 238913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-77103-10	MW-08	Dissolved	Water	9038	
500-77103-11	MW-09	Dissolved	Water	9038	
LCS 500-238913/4	Lab Control Sample	Total/NA	Water	9038	
MB 500-238913/3	Method Blank	Total/NA	Water	9038	

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Surrogate Summary

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

TestAmerica Job ID: 500-77103-2

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)
500-77103-10	MW-08	105	99	101	93
500-77103-11	MW-09	104	100	100	94
500-77103-11 MS	MW-09	105	101	101	97
500-77103-11 MSD	MW-09	102	101	101	97
LCS 500-236927/4	Lab Control Sample	103	102	99	98
MB 500-236927/6	Method Blank	102	99	99	95

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: 500-77103-2

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

Lab Sample ID: MB 500-236927/6
Matrix: Water
Analysis Batch: 236927

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			05/19/14 21:51	1
Toluene	<0.00050		0.00050		mg/L			05/19/14 21:51	1
Ethylbenzene	<0.00050		0.00050		mg/L			05/19/14 21:51	1
Xylenes, Total	<0.0010		0.0010		mg/L			05/19/14 21:51	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		05/19/14 21:51	1
Toluene-d8 (Surr)	99		75 - 120		05/19/14 21:51	1
4-Bromofluorobenzene (Surr)	99		75 - 120		05/19/14 21:51	1
Dibromofluoromethane	95		75 - 120		05/19/14 21:51	1

Lab Sample ID: LCS 500-236927/4
Matrix: Water
Analysis Batch: 236927

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	0.0532		mg/L		106	75 - 120
Toluene	0.0500	0.0558		mg/L		112	75 - 120
Ethylbenzene	0.0500	0.0539		mg/L		108	75 - 120
Xylenes, Total	0.100	0.109		mg/L		109	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		75 - 125
Toluene-d8 (Surr)	102		75 - 120
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane	98		75 - 120

Lab Sample ID: 500-77103-11 MS
Matrix: Water
Analysis Batch: 236927

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Benzene	<0.00050		0.0500	0.0532		mg/L		106	75 - 120
Toluene	<0.00050		0.0500	0.0544		mg/L		109	75 - 120
Ethylbenzene	<0.00050		0.0500	0.0526		mg/L		105	75 - 120
Xylenes, Total	<0.0010		0.100	0.107		mg/L		107	75 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		75 - 125
Toluene-d8 (Surr)	101		75 - 120
4-Bromofluorobenzene (Surr)	101		75 - 120
Dibromofluoromethane	97		75 - 120

TestAmerica Chicago

MWG13-15_45526
6/3/2014

QC Sample Results

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

TestAmerica Job ID: 500-77103-2

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

Lab Sample ID: 500-77103-11 MSD						Client Sample ID: MW-09					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 236927											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00050		0.0500	0.0532		mg/L		106	75 - 120	0	20
Toluene	<0.00050		0.0500	0.0569		mg/L		114	75 - 120	4	20
Ethylbenzene	<0.00050		0.0500	0.0554		mg/L		111	75 - 120	5	20
Xylenes, Total	<0.0010		0.100	0.112		mg/L		112	75 - 120	4	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		102		75 - 125							
Toluene-d8 (Surr)		101		75 - 120							
4-Bromofluorobenzene (Surr)		101		75 - 120							
Dibromofluoromethane		97		75 - 120							

Method: 314.0 - Perchlorate (IC)

Lab Sample ID: MB 320-43721/14						Client Sample ID: Method Blank					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 43721											
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Perchlorate	<0.0040		0.0040		mg/L			06/02/14 14:55	1		

Lab Sample ID: LCS 320-43721/15						Client Sample ID: Lab Control Sample					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 43721											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits				
Perchlorate	0.0500	0.0502		mg/L		100	85 - 115				

Lab Sample ID: MRL 320-43721/13						Client Sample ID: Lab Control Sample					
Matrix: Water						Prep Type: Total/NA					
Analysis Batch: 43721											
Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits				
Perchlorate	4.00	4.03		ug/L		101	75 - 125				

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-237089/1-A						Client Sample ID: Method Blank					
Matrix: Water						Prep Type: Soluble					
Analysis Batch: 237146						Prep Batch: 237089					
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Antimony	<0.0030		0.0030		mg/L		05/20/14 10:06	05/20/14 10:31	1		
Arsenic	<0.0010		0.0010		mg/L		05/20/14 10:06	05/20/14 10:31	1		
Barium	<0.0025		0.0025		mg/L		05/20/14 10:06	05/20/14 10:31	1		
Beryllium	<0.0010		0.0010		mg/L		05/20/14 10:06	05/20/14 10:31	1		
Cadmium	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 10:31	1		
Chromium	<0.0050		0.0050		mg/L		05/20/14 10:06	05/20/14 10:31	1		
Cobalt	<0.0010		0.0010		mg/L		05/20/14 10:06	05/20/14 10:31	1		

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-77103-2

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

Lab Sample ID: MB 500-237089/1-A
 Matrix: Water
 Analysis Batch: 237146

Client Sample ID: Method Blank
 Prep Type: Soluble
 Prep Batch: 237089

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 10:31	1
Iron	<0.10		0.10		mg/L		05/20/14 10:06	05/20/14 10:31	1
Lead	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 10:31	1
Manganese	<0.0025		0.0025		mg/L		05/20/14 10:06	05/20/14 10:31	1
Nickel	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 10:31	1
Selenium	<0.0025		0.0025		mg/L		05/20/14 10:06	05/20/14 10:31	1
Silver	<0.00050		0.00050		mg/L		05/20/14 10:06	05/20/14 10:31	1
Thallium	<0.0020		0.0020		mg/L		05/20/14 10:06	05/20/14 10:31	1
Vanadium	<0.0050		0.0050		mg/L		05/20/14 10:06	05/20/14 10:31	1
Zinc	<0.020		0.020		mg/L		05/20/14 10:06	05/20/14 10:31	1

Lab Sample ID: MB 500-237089/1-A
 Matrix: Water
 Analysis Batch: 237345

Client Sample ID: Method Blank
 Prep Type: Soluble
 Prep Batch: 237089

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		05/20/14 10:06	05/21/14 10:32	1

Lab Sample ID: LCS 500-237089/2-A
 Matrix: Water
 Analysis Batch: 237146

Client Sample ID: Lab Control Sample
 Prep Type: Soluble
 Prep Batch: 237089

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Antimony	0.500	0.442		mg/L		88	80 - 120	
Arsenic	0.100	0.0928		mg/L		93	80 - 120	
Barium	0.500	0.483		mg/L		97	80 - 120	
Beryllium	0.0500	0.0452		mg/L		90	80 - 120	
Cadmium	0.0500	0.0487		mg/L		97	80 - 120	
Chromium	0.200	0.188		mg/L		94	80 - 120	
Cobalt	0.500	0.492		mg/L		98	80 - 120	
Copper	0.250	0.255		mg/L		102	80 - 120	
Iron	1.00	1.03		mg/L		103	80 - 120	
Lead	0.100	0.104		mg/L		104	80 - 120	
Manganese	0.500	0.474		mg/L		95	80 - 120	
Nickel	0.500	0.497		mg/L		99	80 - 120	
Selenium	0.100	0.0952		mg/L		95	80 - 120	
Silver	0.0500	0.0471		mg/L		94	80 - 120	
Thallium	0.100	0.103		mg/L		103	80 - 120	
Vanadium	0.500	0.478		mg/L		96	80 - 120	
Zinc	0.500	0.484		mg/L		97	80 - 120	

Lab Sample ID: LCS 500-237089/2-A
 Matrix: Water
 Analysis Batch: 237345

Client Sample ID: Lab Control Sample
 Prep Type: Soluble
 Prep Batch: 237089

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	
Boron	1.00	0.980		mg/L		98	80 - 120	

TestAmerica Chicago

MWG13-15_45528

6/3/2014

QC Sample Results

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

TestAmerica Job ID: 500-77103-2

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-237344/12-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 237550						Prep Batch: 237344			
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.00020		0.00020		mg/L		05/21/14 12:45	05/22/14 12:31	1

Lab Sample ID: LCS 500-237344/13-A						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 237550						Prep Batch: 237344			
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
Mercury	0.00200	0.00214		mg/L		107		80 - 120	

Method: 9014 - Cyanide

Lab Sample ID: MB 500-237730/25-A						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 237817						Prep Batch: 237730			
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide, Total	<0.010		0.010		mg/L		05/23/14 13:20	05/23/14 17:54	1

Lab Sample ID: LCS 500-237730/26-A						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 237817						Prep Batch: 237730			
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
Cyanide, Total	0.100	0.105		mg/L		105		80 - 120	

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-238913/3						Client Sample ID: Method Blank			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 238913									
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sulfate	<5.0		5.0		mg/L			06/02/14 07:10	1

Lab Sample ID: LCS 500-238913/4						Client Sample ID: Lab Control Sample			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 238913									
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
Sulfate	20.0	19.1		mg/L		95		80 - 120	

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-77103-2

Method: 9251 - Chloride

Lab Sample ID: MB 500-237426/4
 Matrix: Water
 Analysis Batch: 237426

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			05/21/14 21:38	1

Lab Sample ID: LCS 500-237426/5
 Matrix: Water
 Analysis Batch: 237426

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

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

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

Lab Sample ID: MB 500-237647/1
 Matrix: Water
 Analysis Batch: 237647

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			05/22/14 22:57	1

Lab Sample ID: LCS 500-237647/2
 Matrix: Water
 Analysis Batch: 237647

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 F C - Fluoride

Lab Sample ID: MB 500-237938/3
 Matrix: Water
 Analysis Batch: 237938

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			05/24/14 18:41	1

Lab Sample ID: LCS 500-237938/4
 Matrix: Water
 Analysis Batch: 237938

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

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

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-77103-2

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-236770/3 Matrix: Water Analysis Batch: 236770						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			05/16/14 21:15	1

Lab Sample ID: LCS 500-236770/4 Matrix: Water Analysis Batch: 236770						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	0.105		mg/L		105	80 - 120		

Lab Sample ID: 500-77103-11 MS Matrix: Water Analysis Batch: 236770						Client Sample ID: MW-09 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	0.0942		mg/L		94	75 - 125

Lab Sample ID: 500-77103-11 MSD Matrix: Water Analysis Batch: 236770						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	Limit
Nitrogen, Nitrite	<0.020		0.100	0.0959		mg/L		96	75 - 125	2	20

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-237791/3 Matrix: Water Analysis Batch: 237791						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			05/23/14 14:37	1

Lab Sample ID: LCS 500-237791/4 Matrix: Water Analysis Batch: 237791						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	0.932		mg/L		93	80 - 120		

TestAmerica Chicago

MWG13-15_45531

6/3/2014

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 61
Phone: 708.534.5200 Fax: 708.534.5201



500-77103 COC

Report To RICH GNAT	Bill To _____
Contact KPRG & ASSOCIATES INC	Contact _____
Company 14665 W. LISBON RD	Company _____
Address BROOKFIELD, IL	Address _____
Address 262-781-0475	Address _____
Phone _____	Phone _____
E-Mail _____	Fax _____
	PO#Reference# _____

Chain of Custody Record

Lab Job #: **500-77103**

Chain of Custody Number: _____

Page **1** of **2**

Temperature °C of Cooler: **(3.8)(4.2)(3.6)**

Client		Client Project #		Preservative		Paramotor		Matrix		Preservative Key	Comments	
KPRG & ASSOCIATES		12313.2		3 7 7 2 4 7 1		DISSOLVED METAL, TDS, FI, SO4, CI, NO2, NO3-NO2, CYANIDE, PERCHLORATE, BTEX						
Project Name		Project Location/State		Lab Project #		Lab PM						
Waukegan Station Ash Ponds		Waukegan, IL		50004763		B. STADELMANN						
Lab ID	MS/MSD	Sample ID	Date	Time	# of Containers	Matrix						
1		MW-01	5/6/14	09:00	9	W	X	X	X	X	X	
2		MW-02	5/15/14	17:00	9	W						
3		MW-03	5/15/14	18:10	9	W						
4		MW-04	5/16/14	10:40	9	W						
5		MW-05	5/16/14	11:53	9	W						
6		MW-06	5/15/14	11:58	9	W						
7		MW-07	5/15/14	10:45	9	W						
8		DUPLICATE	5/15/14	—	9	W	X	X	X	X	X	
9		TRIP BLANK	—	—	2	W						

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ___ Other

Requested Date Delivered: _____

Sample Disposal

Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By <i>[Signature]</i>	Company KPRG	Date 5/16/14	Time 1515	Received By <i>[Signature]</i>	Company TRAC	Date 5/16/14	Time 1515
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: _____

Shipped: _____

Hand Delivered: **KPRG**

- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments

Lab Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
 Phone: 708.534.5200 Fax: 708.534.5211

Report To (optional)
 Contact: **RICH GNAT**
 Company: **KPRC & ASSOCIATES Inc**
 Address: **14665 W. LISBON RD**
 Address: **BROOKFIELD, IL**
 Phone: **262-781-0475**
 Fax:
 E-Mail:

Bill To (optional)
 Contact:
 Company:
 Address:
 Address:
 Phone:
 Fax:
 PO#Reference#

Chain of Custody Record

Lab Job #: **500-77103**

Chain of Custody Number: _____

Page **2** of **2**

Temperature °C of Cooler: _____

Client: KPRC & ASSOCIATES		Client Project #: 12313.2		Preservative												Preservative Key 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other		
Project Name: WAUKEGAN STATION ASH PONDS		Lab Project #: 50004763		Parameter														
Project Location/State: WAUKEGAN, IL		Lab PI: B. STADELMANN		DISSOLVED METALS TDS, FI SO4, CI NO2 NO3-NO2 CYANIDE PERCHLORATE BTEX														
Lab ID	MS/MSD	Sample ID	Sampling		# of Containers	Matrix												
			Date	Time														
		NEW WELLS	5/15/14															
10		MW-08	5-15-14	13:30	9	W	X	X	X	X	X	X	X	X	X	X		
11		MW-09	5-15-14	14:48	9	W	X	X	X	X	X	X	X	X	X	X		

Turnaround Time Required (Business Days)

1 Day 2 Days 5 Days 7 Days 10 Days 15 Days Other Return to Client Disposal by Lab Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Requested Due Date: _____

Relinquished By: [Signature]	Company: KPRC	Date: 5/16/14	Time: 15:15	Received By: [Signature]	Company: TA-CAT	Date: 5/16/14	Time: 15:15
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:

Lab Courier: _____
 Shipped: _____
 Hand Delivered: **KPRC**


- Matrix Key
- WW - Wastewater
 - W - Water
 - S - Soil
 - SL - Sludge
 - MS - Miscellaneous
 - OL - Oil
 - A - Air
 - SE - Sediment
 - SO - Soil
 - L - Leachate
 - WI - Wipe
 - DW - Drinking Water
 - O - Other

Client Comments:

Lab Comments:

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

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler	Lab PM.	Carrier Tracking No(s)	COC No		
Client Contact Shipping/Receiving		Phone	Stadelmann, Bonnie M		500-49131.1		
Company TestAmerica Laboratories, Inc.			E-Mail bonnie.stadelmann@testamericainc.com		Page Page 1 of 1		
Address: 880 Riverside Parkway, City West Sacramento State, Zip CA, 95605		Due Date Requested: 5/30/2014	Analysis Requested  500-77103 Chain of Custody		Job # 500-77103-1		
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		TAT Requested (days):			Field Filled Samples (Use of NO) 314.0g Perchlorate	Preservation Codes:	
Email		PO #				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)
Project Name Waukegan Station Ash Ponds		WO #:					Other:
Site Ian John Howieson		Project # 50004763					
Site SSOW#:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filled Samples (Use of NO)	Total Number of Containers	Special Instructions/Note:
MW-01 (500-77103-1)	5/16/14	09:00 Central		Water	X	1	
MW-02 (500-77103-2)	5/15/14	17:00 Central		Water	X	1	
MW-03 (500-77103-3)	5/15/14	16:10 Central		Water	X	1	
MW-04 (500-77103-4)	5/16/14	10:40 Central		Water	X	1	
MW-05 (500-77103-5)	5/16/14	11:53 Central		Water	X	1	
MW-06 (500-77103-6)	5/15/14	11:58 Central		Water	X	1	
MW-07 (500-77103-7)	5/15/14	10:45 Central		Water	X	1	
DUPLICATE (500-77103-8)	5/15/14	Central		Water	X	1	
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
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 Shipment:			
Relinquished by	Date/Time			Received by	Date/Time		
Relinquished by	Date/Time			Received by	Date/Time		
Relinquished by	Date/Time			Received by:	Date/Time		

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MWG13-15-45534
6/3/2014

0.12

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

Client Information (Sub Contract Lab)			Sampler		Lab PM Stadelmann, Bonnie M		Camera Tracking No(s)		DOC No: 500-49131.1				
Client Contact Shipping/Receiving			Phone		E-Mail bonnie.stadelmann@testamericainc.com				Page Page 1 of 1				
Company TestAmerica Laboratories, Inc.					Analysis Requested					Job #: 500-77103-2			
Address 880 Riverside Parkway			Due Date Requested: 5/30/2014		Total Number of Containers							Preservation Codes: A - HCL M - Hexane B - NaOH N - 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: 916-373-5600(Tel) 916-372-1059(Fax)			WO #										
Email													
Project Name Waukegan Station Ash Ponds			Project # 50004763										
Site Ian John Howieson			SSOW#										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)		316/1 Perchlorate		Special Instructions/Note:			
				Preservation Code:		X	X						
MW-08 (500-77103-10)		5/15/14	13:30 Central		Water		X						
MW-09 (500-77103-11)		5/15/14	14:46 Central		Water		X						
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
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 Shipment:								
Relinquished by	Date/Time		Company	Received by	Date/Time		Company	Received by	Date/Time		Company		
<i>[Signature]</i>	05/17/14	1600	TAL	<i>[Signature]</i>	5/17/14	900	TALS						
Relinquished by	Date/Time		Company	Received by	Date/Time		Company	Received by	Date/Time		Company		
Relinquished by	Date/Time		Company	Received by	Date/Time		Company	Received by	Date/Time		Company		

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6/3/2014

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-77103-2

Login Number: 77103

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

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.	N/A	
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	3.8,4.2,3.6
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?	True	
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.	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	

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Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-77103-2

Login Number: 77103
 List Number: 2
 Creator: Nelson, Kym D

List Source: TestAmerica Sacramento
 List Creation: 05/20/14 12:58 PM

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.	N/A	
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	

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Certification Summary

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

TestAmerica Job ID: 500-77103-2

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
AZLA	DoD ELAP		2928-01	01-31-16
Alaska (UST)	State Program	10	UST-055	12-18-13 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14 *
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
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	06-30-14
Michigan	State Program	5	9947	01-31-15
Nebraska	State Program	7	NE-OS-22-13	01-29-15
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	04-01-15
Oregon	NELAP	10	CA200005	01-29-15
Pennsylvania	NELAP	3	9947	03-31-15
South Carolina	State Program	4	87014	06-30-14
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	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
Washington	State Program	10	C581	05-05-15
West Virginia DHHR	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	01-29-15

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* Expired certification is currently pending renewal and is considered valid.