

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: 500-128310-1
Client Project/Site: Waukegan Station Permit

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

Attn: Richard Gnat



Authorized for release by:
5/30/2017 7:47:34 PM

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

MWG13-15_62789

Comp. Ex. 235K

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Case Narrative

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

TestAmerica Job ID: 500-128310-1

Job ID: 500-128310-1

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Laboratory: TestAmerica Chicago

Narrative

**Job Narrative
500-128310-1**

Comments

No additional comments.

Receipt

The samples were received on 5/18/2017 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 3.1° C and 5.3° C.

Metals

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 Permit

TestAmerica Job ID: 500-128310-1

Client Sample ID: ELUC MW-10

Lab Sample ID: 500-128310-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.49		0.0010		mg/L	1			6020A	Total
										Recoverable
Barium	0.099		0.0025		mg/L	1			6020A	Total
										Recoverable
Boron	1.1		0.25		mg/L	5			6020A	Total
										Recoverable
Chromium	0.0053		0.0050		mg/L	1			6020A	Total
										Recoverable
Iron	7.9		0.10		mg/L	1			6020A	Total
										Recoverable
Manganese	0.21		0.0025		mg/L	1			6020A	Total
										Recoverable
Nickel	0.0031		0.0020		mg/L	1			6020A	Total
										Recoverable
Sulfate	130		50		mg/L	10			9038	Total/NA
Chloride	160		10		mg/L	5			9251	Total/NA
Total Dissolved Solids	960		10		mg/L	1			SM 2540C	Total/NA
Fluoride	0.13		0.10		mg/L	1			SM 4500 F C	Total/NA

Client Sample ID: ELUC MW-12

Lab Sample ID: 500-128310-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.055		0.0010		mg/L	1			6020A	Total
										Recoverable
Barium	0.12		0.0025		mg/L	1			6020A	Total
										Recoverable
Boron	16		0.25		mg/L	5			6020A	Total
										Recoverable
Cobalt	0.0025		0.0010		mg/L	1			6020A	Total
										Recoverable
Iron	6.4		0.10		mg/L	1			6020A	Total
										Recoverable
Manganese	0.33		0.0025		mg/L	1			6020A	Total
										Recoverable
Nickel	0.0048		0.0020		mg/L	1			6020A	Total
										Recoverable
Zinc	0.048		0.020		mg/L	1			6020A	Total
										Recoverable
Sulfate	240		100		mg/L	20			9038	Total/NA
Chloride	180		10		mg/L	5			9251	Total/NA
Total Dissolved Solids	1100		10		mg/L	1			SM 2540C	Total/NA
Fluoride	0.21		0.10		mg/L	1			SM 4500 F C	Total/NA

Client Sample ID: ELUC MW-15

Lab Sample ID: 500-128310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.031		0.0010		mg/L	1			6020A	Total
										Recoverable
Barium	0.092		0.0025		mg/L	1			6020A	Total
										Recoverable
Boron	5.8		0.50		mg/L	10			6020A	Total
										Recoverable
Cobalt	0.0012		0.0010		mg/L	1			6020A	Total
										Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

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

TestAmerica Job ID: 500-128310-1

Client Sample ID: ELUC MW-15 (Continued)

Lab Sample ID: 500-128310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Iron	15		0.10		mg/L	1			6020A	Total Recoverable
Manganese	0.37		0.0025		mg/L	1			6020A	Total Recoverable
Sulfate	230		100		mg/L	20			9038	Total/NA
Chloride	50		2.0		mg/L	1			9251	Total/NA
Total Dissolved Solids	1100		10		mg/L	1			SM 2540C	Total/NA
Fluoride	0.25		0.10		mg/L	1			SM 4500 F C	Total/NA

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Client Sample ID: ELUC-MW-11

Lab Sample ID: 500-128310-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.59		0.0010		mg/L	1			6020A	Total Recoverable
Barium	0.041		0.0025		mg/L	1			6020A	Total Recoverable
Boron	1.7		0.25		mg/L	5			6020A	Total Recoverable
Copper	0.0040		0.0020		mg/L	1			6020A	Total Recoverable
Iron	3.3		0.10		mg/L	1			6020A	Total Recoverable
Manganese	0.24		0.0025		mg/L	1			6020A	Total Recoverable
Sulfate	110		25		mg/L	5			9038	Total/NA
Chloride	180		10		mg/L	5			9251	Total/NA
Nitrogen, Nitrate	0.28		0.10		mg/L	1			Nitrate by calc	Total/NA
Total Dissolved Solids	970		10		mg/L	1			SM 2540C	Total/NA
Fluoride	0.13		0.10		mg/L	1			SM 4500 F C	Total/NA
Nitrogen, Nitrate Nitrite	0.28		0.10		mg/L	1			SM 4500 NO3 F	Total/NA

Client Sample ID: ELUC MW-14

Lab Sample ID: 500-128310-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	0.66		0.0010		mg/L	1			6020A	Total Recoverable
Barium	0.045		0.0025		mg/L	1			6020A	Total Recoverable
Boron	0.76		0.10		mg/L	2			6020A	Total Recoverable
Chromium	0.20		0.0050		mg/L	1			6020A	Total Recoverable
Copper	0.0020		0.0020		mg/L	1			6020A	Total Recoverable
Iron	7.8		0.10		mg/L	1			6020A	Total Recoverable
Manganese	0.052		0.0025		mg/L	1			6020A	Total Recoverable
Sulfate	73		20		mg/L	4			9038	Total/NA
Chloride	110		10		mg/L	5			9251	Total/NA
Total Dissolved Solids	600		10		mg/L	1			SM 2540C	Total/NA
Fluoride	0.23		0.10		mg/L	1			SM 4500 F C	Total/NA
Nitrogen, Nitrite	0.058		0.020		mg/L	1			SM 4500 NO2 B	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

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

TestAmerica Job ID: 500-128310-1

Method	Method Description	Protocol	Laboratory
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:

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

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Sample Summary

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

TestAmerica Job ID: 500-128310-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-128310-1	ELUC MW-10	Water	05/17/17 13:43	05/18/17 09:45
500-128310-2	ELUC MW-12	Water	05/17/17 12:14	05/18/17 09:45
500-128310-3	ELUC MW-15	Water	05/17/17 09:19	05/18/17 09:45
500-128310-4	ELUC-MW-11	Water	05/18/17 09:50	05/18/17 16:15
500-128310-5	ELUC MW-14	Water	05/18/17 11:15	05/18/17 16:15

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Client Sample Results

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

TestAmerica Job ID: 500-128310-1

Client Sample ID: ELUC MW-10

Lab Sample ID: 500-128310-1

Date Collected: 05/17/17 13:43

Matrix: Water

Date Received: 05/18/17 09:45

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 22:28	1
Arsenic	0.49		0.0010		mg/L		05/20/17 10:03	05/22/17 22:28	1
Barium	0.099		0.0025		mg/L		05/20/17 10:03	05/22/17 22:28	1
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 12:01	1
Boron	1.1		0.25		mg/L		05/20/17 10:03	05/24/17 14:44	5
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:28	1
Chromium	0.0053		0.0050		mg/L		05/20/17 10:03	05/22/17 22:28	1
Cobalt	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 22:28	1
Copper	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:28	1
Iron	7.9		0.10		mg/L		05/20/17 10:03	05/22/17 22:28	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:28	1
Manganese	0.21		0.0025		mg/L		05/20/17 10:03	05/22/17 22:28	1
Nickel	0.0031		0.0020		mg/L		05/20/17 10:03	05/22/17 22:28	1
Selenium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/23/17 12:01	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:28	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:28	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 12:01	1
Zinc	<0.020		0.020		mg/L		05/20/17 10:03	05/22/17 22:28	1

Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:24	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00	05/20/17 16:11	1
Sulfate	130		50		mg/L			05/26/17 09:33	10
Chloride	160		10		mg/L			05/24/17 21:49	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/30/17 16:27	1
Total Dissolved Solids	960		10		mg/L			05/24/17 06:34	1
Fluoride	0.13		0.10		mg/L			05/20/17 16:44	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/18/17 12:39	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/24/17 01:55	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-128310-1

Client Sample ID: ELUC MW-12

Lab Sample ID: 500-128310-2

Date Collected: 05/17/17 12:14

Matrix: Water

Date Received: 05/18/17 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 22:32	1
Arsenic	0.055		0.0010		mg/L		05/20/17 10:03	05/22/17 22:32	1
Barium	0.12		0.0025		mg/L		05/20/17 10:03	05/22/17 22:32	1
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 12:04	1
Boron	16		0.25		mg/L		05/20/17 10:03	05/24/17 14:49	5
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:32	1
Chromium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/22/17 22:32	1
Cobalt	0.0025		0.0010		mg/L		05/20/17 10:03	05/22/17 22:32	1
Copper	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:32	1
Iron	6.4		0.10		mg/L		05/20/17 10:03	05/22/17 22:32	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:32	1
Manganese	0.33		0.0025		mg/L		05/20/17 10:03	05/22/17 22:32	1
Nickel	0.0048		0.0020		mg/L		05/20/17 10:03	05/22/17 22:32	1
Selenium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/23/17 12:04	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:32	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:32	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 12:04	1
Zinc	0.048		0.020		mg/L		05/20/17 10:03	05/22/17 22:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00	05/20/17 16:12	1
Sulfate	240		100		mg/L			05/26/17 09:34	20
Chloride	180		10		mg/L			05/24/17 21:50	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/30/17 16:27	1
Total Dissolved Solids	1100		10		mg/L			05/24/17 06:37	1
Fluoride	0.21		0.10		mg/L			05/20/17 16:47	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/18/17 12:40	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/24/17 01:58	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-128310-1

Client Sample ID: ELUC MW-15

Lab Sample ID: 500-128310-3

Date Collected: 05/17/17 09:19

Matrix: Water

Date Received: 05/18/17 09:45

Method: 6020A - Metals (ICP/MS) - Total Recoverable									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 22:36	1
Arsenic	0.031		0.0010		mg/L		05/20/17 10:03	05/22/17 22:36	1
Barium	0.092		0.0025		mg/L		05/20/17 10:03	05/22/17 22:36	1
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 12:08	1
Boron	5.8		0.50		mg/L		05/20/17 10:03	05/24/17 14:53	10
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:36	1
Chromium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/22/17 22:36	1
Cobalt	0.0012		0.0010		mg/L		05/20/17 10:03	05/22/17 22:36	1
Copper	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:36	1
Iron	15		0.10		mg/L		05/20/17 10:03	05/22/17 22:36	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:36	1
Manganese	0.37		0.0025		mg/L		05/20/17 10:03	05/22/17 22:36	1
Nickel	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:36	1
Selenium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/23/17 12:08	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:36	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:36	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 12:08	1
Zinc	<0.020		0.020		mg/L		05/20/17 10:03	05/22/17 22:36	1

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Method: 7470A - Mercury (CVAA)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:32	1

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00	05/20/17 16:12	1
Sulfate	230		100		mg/L			05/26/17 09:35	20
Chloride	50		2.0		mg/L			05/24/17 21:18	1
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/30/17 16:27	1
Total Dissolved Solids	1100		10		mg/L			05/24/17 06:39	1
Fluoride	0.25		0.10		mg/L			05/20/17 16:51	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/18/17 12:40	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/24/17 02:00	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-128310-1

Client Sample ID: ELUC-MW-11

Lab Sample ID: 500-128310-4

Date Collected: 05/18/17 09:50

Matrix: Water

Date Received: 05/18/17 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 22:40	1
Arsenic	0.59		0.0010		mg/L		05/20/17 10:03	05/22/17 22:40	1
Barium	0.041		0.0025		mg/L		05/20/17 10:03	05/22/17 22:40	1
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 12:13	1
Boron	1.7		0.25		mg/L		05/20/17 10:03	05/24/17 14:58	5
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:40	1
Chromium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/22/17 22:40	1
Cobalt	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 22:40	1
Copper	0.0040		0.0020		mg/L		05/20/17 10:03	05/22/17 22:40	1
Iron	3.3		0.10		mg/L		05/20/17 10:03	05/22/17 22:40	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:40	1
Manganese	0.24		0.0025		mg/L		05/20/17 10:03	05/22/17 22:40	1
Nickel	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:40	1
Selenium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/23/17 12:13	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:40	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:40	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 12:13	1
Zinc	<0.020		0.020		mg/L		05/20/17 10:03	05/22/17 22:40	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00	05/20/17 16:12	1
Sulfate	110		25		mg/L			05/26/17 09:36	5
Chloride	180		10		mg/L			05/24/17 21:51	5
Nitrogen, Nitrate	0.28		0.10		mg/L			05/30/17 16:27	1
Total Dissolved Solids	970		10		mg/L			05/25/17 07:01	1
Fluoride	0.13		0.10		mg/L			05/20/17 16:54	1
Nitrogen, Nitrite	<0.020		0.020		mg/L			05/19/17 18:32	1
Nitrogen, Nitrate Nitrite	0.28		0.10		mg/L			05/24/17 02:02	1

TestAmerica Chicago

MWG13-15_62799

5/30/2017

Client Sample Results

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

TestAmerica Job ID: 500-128310-1

Client Sample ID: ELUC MW-14

Lab Sample ID: 500-128310-5

Date Collected: 05/18/17 11:15

Matrix: Water

Date Received: 05/18/17 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 22:43	1
Arsenic	0.66		0.0010		mg/L		05/20/17 10:03	05/22/17 22:43	1
Barium	0.045		0.0025		mg/L		05/20/17 10:03	05/22/17 22:43	1
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 12:16	1
Boron	0.76		0.10		mg/L		05/20/17 10:03	05/24/17 15:03	2
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:43	1
Chromium	0.20		0.0050		mg/L		05/20/17 10:03	05/22/17 22:43	1
Cobalt	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 22:43	1
Copper	0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:43	1
Iron	7.8		0.10		mg/L		05/20/17 10:03	05/22/17 22:43	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:43	1
Manganese	0.052		0.0025		mg/L		05/20/17 10:03	05/22/17 22:43	1
Nickel	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:43	1
Selenium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/23/17 12:16	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 22:43	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 22:43	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 12:16	1
Zinc	<0.020		0.020		mg/L		05/20/17 10:03	05/22/17 22:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 12:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00	05/20/17 16:13	1
Sulfate	73		20		mg/L			05/26/17 09:37	4
Chloride	110		10		mg/L			05/24/17 21:51	5
Nitrogen, Nitrate	<0.10		0.10		mg/L			05/30/17 16:27	1
Total Dissolved Solids	600		10		mg/L			05/25/17 07:08	1
Fluoride	0.23		0.10		mg/L			05/20/17 17:03	1
Nitrogen, Nitrite	0.058		0.020		mg/L			05/19/17 18:32	1
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/24/17 02:04	1

TestAmerica Chicago

MWG13-15_62800
5/30/2017

Definitions/Glossary

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

TestAmerica Job ID: 500-128310-1

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

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

TestAmerica Job ID: 500-128310-1

Metals

Prep Batch: 386098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total Recoverable	Water	3005A	
500-128310-2	ELUC MW-12	Total Recoverable	Water	3005A	
500-128310-3	ELUC MW-15	Total Recoverable	Water	3005A	
500-128310-4	ELUC-MW-11	Total Recoverable	Water	3005A	
500-128310-5	ELUC MW-14	Total Recoverable	Water	3005A	
MB 500-386098/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-386098/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 386308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	7470A	
500-128310-2	ELUC MW-12	Total/NA	Water	7470A	
500-128310-3	ELUC MW-15	Total/NA	Water	7470A	
500-128310-4	ELUC-MW-11	Total/NA	Water	7470A	
500-128310-5	ELUC MW-14	Total/NA	Water	7470A	
MB 500-386308/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-386308/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-128310-1 MS	ELUC MW-10	Total/NA	Water	7470A	
500-128310-1 MSD	ELUC MW-10	Total/NA	Water	7470A	
500-128310-1 DU	ELUC MW-10	Total/NA	Water	7470A	

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Analysis Batch: 386443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total Recoverable	Water	6020A	386098
500-128310-2	ELUC MW-12	Total Recoverable	Water	6020A	386098
500-128310-3	ELUC MW-15	Total Recoverable	Water	6020A	386098
500-128310-4	ELUC-MW-11	Total Recoverable	Water	6020A	386098
500-128310-5	ELUC MW-14	Total Recoverable	Water	6020A	386098
MB 500-386098/1-A	Method Blank	Total Recoverable	Water	6020A	386098
LCS 500-386098/2-A	Lab Control Sample	Total Recoverable	Water	6020A	386098

Analysis Batch: 386478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	7470A	386308
500-128310-2	ELUC MW-12	Total/NA	Water	7470A	386308
500-128310-3	ELUC MW-15	Total/NA	Water	7470A	386308
500-128310-4	ELUC-MW-11	Total/NA	Water	7470A	386308
500-128310-5	ELUC MW-14	Total/NA	Water	7470A	386308
MB 500-386308/12-A	Method Blank	Total/NA	Water	7470A	386308
LCS 500-386308/13-A	Lab Control Sample	Total/NA	Water	7470A	386308
500-128310-1 MS	ELUC MW-10	Total/NA	Water	7470A	386308
500-128310-1 MSD	ELUC MW-10	Total/NA	Water	7470A	386308
500-128310-1 DU	ELUC MW-10	Total/NA	Water	7470A	386308

Analysis Batch: 386526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total Recoverable	Water	6020A	386098
500-128310-2	ELUC MW-12	Total Recoverable	Water	6020A	386098
500-128310-3	ELUC MW-15	Total Recoverable	Water	6020A	386098
500-128310-4	ELUC-MW-11	Total Recoverable	Water	6020A	386098
500-128310-5	ELUC MW-14	Total Recoverable	Water	6020A	386098

TestAmerica Chicago

QC Association Summary

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

TestAmerica Job ID: 500-128310-1

Metals (Continued)

Analysis Batch: 386526 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-386098/1-A	Method Blank	Total Recoverable	Water	6020A	386098
LCS 500-386098/2-A	Lab Control Sample	Total Recoverable	Water	6020A	386098

Analysis Batch: 386731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total Recoverable	Water	6020A	386098
500-128310-2	ELUC MW-12	Total Recoverable	Water	6020A	386098
500-128310-3	ELUC MW-15	Total Recoverable	Water	6020A	386098
500-128310-4	ELUC-MW-11	Total Recoverable	Water	6020A	386098
500-128310-5	ELUC MW-14	Total Recoverable	Water	6020A	386098
MB 500-386098/1-A	Method Blank	Total Recoverable	Water	6020A	386098
LCS 500-386098/2-A	Lab Control Sample	Total Recoverable	Water	6020A	386098

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General Chemistry

Analysis Batch: 385809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	SM 4500 NO2 B	
500-128310-2	ELUC MW-12	Total/NA	Water	SM 4500 NO2 B	
500-128310-3	ELUC MW-15	Total/NA	Water	SM 4500 NO2 B	
MB 500-385809/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-385809/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

Prep Batch: 386110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	9010C	
500-128310-2	ELUC MW-12	Total/NA	Water	9010C	
500-128310-3	ELUC MW-15	Total/NA	Water	9010C	
500-128310-4	ELUC-MW-11	Total/NA	Water	9010C	
500-128310-5	ELUC MW-14	Total/NA	Water	9010C	
MB 500-386110/1-A	Method Blank	Total/NA	Water	9010C	
LCS 500-386110/2-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 386238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	SM 4500 F C	
500-128310-2	ELUC MW-12	Total/NA	Water	SM 4500 F C	
500-128310-3	ELUC MW-15	Total/NA	Water	SM 4500 F C	
500-128310-4	ELUC-MW-11	Total/NA	Water	SM 4500 F C	
500-128310-5	ELUC MW-14	Total/NA	Water	SM 4500 F C	
MB 500-386238/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-386238/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 386248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-4	ELUC-MW-11	Total/NA	Water	SM 4500 NO2 B	
500-128310-5	ELUC MW-14	Total/NA	Water	SM 4500 NO2 B	
MB 500-386248/3	Method Blank	Total/NA	Water	SM 4500 NO2 B	
LCS 500-386248/4	Lab Control Sample	Total/NA	Water	SM 4500 NO2 B	

TestAmerica Chicago

MWG13-15_62803

5/30/2017

QC Association Summary

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

TestAmerica Job ID: 500-128310-1

General Chemistry (Continued)

Analysis Batch: 386254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	9014	386110
500-128310-2	ELUC MW-12	Total/NA	Water	9014	386110
500-128310-3	ELUC MW-15	Total/NA	Water	9014	386110
500-128310-4	ELUC-MW-11	Total/NA	Water	9014	386110
500-128310-5	ELUC MW-14	Total/NA	Water	9014	386110
MB 500-386110/1-A	Method Blank	Total/NA	Water	9014	386110
LCS 500-386110/2-A	Lab Control Sample	Total/NA	Water	9014	386110

Analysis Batch: 386563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	SM 2540C	
500-128310-2	ELUC MW-12	Total/NA	Water	SM 2540C	
500-128310-3	ELUC MW-15	Total/NA	Water	SM 2540C	
MB 500-386563/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-386563/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 386735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	SM 4500 NO3 F	
500-128310-2	ELUC MW-12	Total/NA	Water	SM 4500 NO3 F	
500-128310-3	ELUC MW-15	Total/NA	Water	SM 4500 NO3 F	
500-128310-4	ELUC-MW-11	Total/NA	Water	SM 4500 NO3 F	
500-128310-5	ELUC MW-14	Total/NA	Water	SM 4500 NO3 F	
MB 500-386735/12	Method Blank	Total/NA	Water	SM 4500 NO3 F	
LCS 500-386735/13	Lab Control Sample	Total/NA	Water	SM 4500 NO3 F	

Analysis Batch: 386753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	9251	
500-128310-2	ELUC MW-12	Total/NA	Water	9251	
500-128310-3	ELUC MW-15	Total/NA	Water	9251	
500-128310-4	ELUC-MW-11	Total/NA	Water	9251	
500-128310-5	ELUC MW-14	Total/NA	Water	9251	
MB 500-386753/4	Method Blank	Total/NA	Water	9251	
LCS 500-386753/5	Lab Control Sample	Total/NA	Water	9251	

Analysis Batch: 386775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-4	ELUC-MW-11	Total/NA	Water	SM 2540C	
500-128310-5	ELUC MW-14	Total/NA	Water	SM 2540C	
MB 500-386775/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-386775/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-128310-4 MS	ELUC-MW-11	Total/NA	Water	SM 2540C	
500-128310-4 DU	ELUC-MW-11	Total/NA	Water	SM 2540C	

Analysis Batch: 387044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	9038	
500-128310-2	ELUC MW-12	Total/NA	Water	9038	
500-128310-3	ELUC MW-15	Total/NA	Water	9038	
500-128310-4	ELUC-MW-11	Total/NA	Water	9038	

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QC Association Summary

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

TestAmerica Job ID: 500-128310-1

General Chemistry (Continued)

Analysis Batch: 387044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-5	ELUC MW-14	Total/NA	Water	9038	
MB 500-387044/3	Method Blank	Total/NA	Water	9038	
LCS 500-387044/4	Lab Control Sample	Total/NA	Water	9038	

Analysis Batch: 387424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128310-1	ELUC MW-10	Total/NA	Water	Nitrate by calc	
500-128310-2	ELUC MW-12	Total/NA	Water	Nitrate by calc	
500-128310-3	ELUC MW-15	Total/NA	Water	Nitrate by calc	
500-128310-4	ELUC-MW-11	Total/NA	Water	Nitrate by calc	
500-128310-5	ELUC MW-14	Total/NA	Water	Nitrate by calc	

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TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-128310-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-386098/1-A Matrix: Water Analysis Batch: 386443						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 386098			
Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.0030		0.0030		mg/L		05/20/17 10:03	05/22/17 21:42	1
Arsenic	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 21:42	1
Barium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/22/17 21:42	1
Cadmium	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 21:42	1
Chromium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/22/17 21:42	1
Cobalt	<0.0010		0.0010		mg/L		05/20/17 10:03	05/22/17 21:42	1
Copper	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 21:42	1
Iron	<0.10		0.10		mg/L		05/20/17 10:03	05/22/17 21:42	1
Lead	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 21:42	1
Manganese	<0.0025		0.0025		mg/L		05/20/17 10:03	05/22/17 21:42	1
Nickel	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 21:42	1
Silver	<0.00050		0.00050		mg/L		05/20/17 10:03	05/22/17 21:42	1
Thallium	<0.0020		0.0020		mg/L		05/20/17 10:03	05/22/17 21:42	1
Zinc	<0.020		0.020		mg/L		05/20/17 10:03	05/22/17 21:42	1

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Lab Sample ID: MB 500-386098/1-A Matrix: Water Analysis Batch: 386526						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 386098			
Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	<0.0010		0.0010		mg/L		05/20/17 10:03	05/23/17 11:45	1
Selenium	<0.0025		0.0025		mg/L		05/20/17 10:03	05/23/17 11:45	1
Vanadium	<0.0050		0.0050		mg/L		05/20/17 10:03	05/23/17 11:45	1

Lab Sample ID: MB 500-386098/1-A Matrix: Water Analysis Batch: 386731						Client Sample ID: Method Blank Prep Type: Total Recoverable Prep Batch: 386098			
Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	<0.050		0.050		mg/L		05/20/17 10:03	05/24/17 14:25	1

Lab Sample ID: LCS 500-386098/2-A Matrix: Water Analysis Batch: 386443						Client Sample ID: Lab Control Sample Prep Type: Total Recoverable Prep Batch: 386098			
Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits	%Rec.	
		Result	Qualifier						
Antimony	0.500	0.548		mg/L		110	80 - 120		
Arsenic	0.100	0.110		mg/L		110	80 - 120		
Barium	0.500	0.564		mg/L		113	80 - 120		
Cadmium	0.0500	0.0562		mg/L		112	80 - 120		
Chromium	0.200	0.217		mg/L		109	80 - 120		
Cobalt	0.500	0.539		mg/L		108	80 - 120		
Copper	0.250	0.285		mg/L		114	80 - 120		
Iron	1.00	1.10		mg/L		110	80 - 120		
Lead	0.100	0.107		mg/L		107	80 - 120		
Manganese	0.500	0.541		mg/L		108	80 - 120		
Nickel	0.500	0.548		mg/L		110	80 - 120		
Silver	0.0500	0.0569		mg/L		114	80 - 120		
Thallium	0.100	0.106		mg/L		106	80 - 120		

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-128310-1

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

Lab Sample ID: LCS 500-386098/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total Recoverable			
Analysis Batch: 386443				Prep Batch: 386098			
		Spike	LCS	LCS			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Zinc	0.500	0.576		mg/L		115	80 - 120

Lab Sample ID: LCS 500-386098/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total Recoverable			
Analysis Batch: 386526				Prep Batch: 386098			
		Spike	LCS	LCS			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Beryllium	0.0500	0.0539		mg/L		108	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120
Vanadium	0.500	0.529		mg/L		106	80 - 120

Lab Sample ID: LCS 500-386098/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total Recoverable			
Analysis Batch: 386731				Prep Batch: 386098			
		Spike	LCS	LCS			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Boron	1.00	1.07		mg/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-386308/12-A				Client Sample ID: Method Blank					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 386478				Prep Batch: 386308					
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/22/17 12:45	05/23/17 11:53	1

Lab Sample ID: LCS 500-386308/13-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 386478				Prep Batch: 386308			
		Spike	LCS	LCS			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Mercury	0.00200	0.00211		mg/L		105	80 - 120

Lab Sample ID: 500-128310-1 MS				Client Sample ID: ELUC MW-10					
Matrix: Water				Prep Type: Total/NA					
Analysis Batch: 386478				Prep Batch: 386308					
	Sample	Sample	Spike	MS	MS				
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Mercury	<0.00020		0.00100	0.00104		mg/L		104	75 - 125

Lab Sample ID: 500-128310-1 MSD				Client Sample ID: ELUC MW-10							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 386478				Prep Batch: 386308							
	Sample	Sample	Spike	MSD	MSD						
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	3	20

TestAmerica Chicago

10

QC Sample Results

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

TestAmerica Job ID: 500-128310-1

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

Lab Sample ID: 500-128310-1 DU				Client Sample ID: ELUC MW-10			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 386478				Prep Batch: 386308			
	Sample	Sample		DU	DU		RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D
Mercury	<0.00020			<0.00020		mg/L	NC
							Limit
							20

Method: 9014 - Cyanide

Lab Sample ID: MB 500-386110/1-A				Client Sample ID: Method Blank			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 386254				Prep Batch: 386110			
	MB	MB					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Cyanide, Total	<0.010		0.010		mg/L		05/20/17 12:00
							Analyzed
							05/20/17 16:05
							Dil Fac
							1

10

Lab Sample ID: LCS 500-386110/2-A				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 386254				Prep Batch: 386110			
		Spike		LCS	LCS		
Analyte		Added		Result	Qualifier	Unit	D
Cyanide, Total		0.100		0.0983		mg/L	
							%Rec
							Limits
							80 - 120

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MB 500-387044/3				Client Sample ID: Method Blank			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 387044							
	MB	MB					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Sulfate	<5.0		5.0		mg/L		
							Analyzed
							05/26/17 09:16
							Dil Fac
							1

Lab Sample ID: LCS 500-387044/4				Client Sample ID: Lab Control Sample			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 387044							
		Spike		LCS	LCS		
Analyte		Added		Result	Qualifier	Unit	D
Sulfate		20.0		20.7		mg/L	
							%Rec
							Limits
							80 - 120

Method: 9251 - Chloride

Lab Sample ID: MB 500-386753/4				Client Sample ID: Method Blank			
Matrix: Water				Prep Type: Total/NA			
Analysis Batch: 386753							
	MB	MB					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
Chloride	<2.0		2.0		mg/L		
							Analyzed
							05/24/17 21:14
							Dil Fac
							1

TestAmerica Chicago

MWG13-15_62808

5/30/2017

QC Sample Results

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

TestAmerica Job ID: 500-128310-1

Method: 9251 - Chloride (Continued)

Lab Sample ID: LCS 500-386753/5
Matrix: Water
Analysis Batch: 386753

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	51.7		mg/L		103	80 - 120

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

Lab Sample ID: MB 500-386563/1
Matrix: Water
Analysis Batch: 386563

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/24/17 06:01	1

10

Lab Sample ID: LCS 500-386563/2
Matrix: Water
Analysis Batch: 386563

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	298		mg/L		119	80 - 120

Lab Sample ID: MB 500-386775/1
Matrix: Water
Analysis Batch: 386775

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10		mg/L			05/25/17 06:56	1

Lab Sample ID: LCS 500-386775/2
Matrix: Water
Analysis Batch: 386775

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	280		mg/L		112	80 - 120

Lab Sample ID: 500-128310-4 MS
Matrix: Water
Analysis Batch: 386775

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	970		250	1270		mg/L		121	75 - 125

Lab Sample ID: 500-128310-4 DU
Matrix: Water
Analysis Batch: 386775

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

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	970		978		mg/L		1	5

TestAmerica Chicago

MWG13-15_62809
5/30/2017

QC Sample Results

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

TestAmerica Job ID: 500-128310-1

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-386238/3
Matrix: Water
Analysis Batch: 386238

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			05/20/17 15:49	1

Lab Sample ID: LCS 500-386238/4
Matrix: Water
Analysis Batch: 386238

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Fluoride	10.0	9.76		mg/L		98	80 - 120

10

Method: SM 4500 NO2 B - Nitrogen, Nitrite

Lab Sample ID: MB 500-385809/3
Matrix: Water
Analysis Batch: 385809

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			05/18/17 12:35	1

Lab Sample ID: LCS 500-385809/4
Matrix: Water
Analysis Batch: 385809

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Nitrogen, Nitrite	0.100	0.106		mg/L		106	80 - 120

Lab Sample ID: MB 500-386248/3
Matrix: Water
Analysis Batch: 386248

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			05/19/17 18:30	1

Lab Sample ID: LCS 500-386248/4
Matrix: Water
Analysis Batch: 386248

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Nitrogen, Nitrite	0.100	0.0969		mg/L		97	80 - 120

Method: SM 4500 NO3 F - Nitrogen, Nitrate

Lab Sample ID: MB 500-386735/12
Matrix: Water
Analysis Batch: 386735

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Nitrogen, Nitrate Nitrite	<0.10		0.10		mg/L			05/24/17 01:04	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-128310-1

Method: SM 4500 NO3 F - Nitrogen, Nitrate (Continued)

Lab Sample ID: LCS 500-386735/13
Matrix: Water
Analysis Batch: 386735

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	0.969		mg/L		97	80 - 120



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:		Bill To:	
Contact: Rich Gnat	Company: KPRG & Associates Inc.		Contact: _____
Address: 14666 W. Lisbon Rd, Suite 2B	Address: _____		Lab Lot # 500-128310
Brookfield, WI, 53005	Phone: 262-781-0475		Package Sealed Yes No
Phone: 262-781-0475	Fax: _____		Samples Sealed Yes No
Fax: _____	Email: _____		Received on Ice Yes No
PO # 4501754865		Temperature °C of Cooler 24-25	

Sampler Name: Ian John Howleson		Client Project # 12313.2		Refrg #		Within Hold Time Yes No		Preserv. Indicated Yes No N/A	
Project Name: Waukegan Station Permit		TestAmerica Project Number: 50004763		Volume		pH Check OK Yes No		Check OK Res CL₂ Cl Yes No N/A	
Project Location: Waukegan, IL		Date Required		Preserv.		Sample Labels and COC Agree Yes No		COC not present	
Lab PM: Eric Lang		Hard Copy: / /		Fax: / /					
Laboratory ID	WE-MED	Client Sample ID	Sampling Date	Time	Matrix	# of Containers	Total NO2	Additional Analyses / Remarks	
1		MW-10 ELUC	5-17-17	13:43	W	1	X		
2		MW-12 ELUC	5-17-17	12:14	W	1	X		
3		MW-15 ELUC	5-17-17	09:19	W	1	X		
NB N					W				
					W				
					W				
					W				
					W				
					W				
					W				



RELINQUISHED BY: <i>ISH</i>	COMPANY: KPRG	DATE: 5-17-17	TIME: 16:00	RECEIVED BY: <i>FEDER</i>	COMPANY: _____	DATE: _____	TIME: _____
RELINQUISHED BY: _____	COMPANY: _____	DATE: _____	TIME: _____	RECEIVED BY: <i>Michelle Sawyer</i>	COMPANY: TAME	DATE: 05/18/17	TIME: 0945

- | | | |
|--|---|---|
| Matrix Key | Container Key | Preservative 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 = _____ | 1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. W/leamouth Glass
6. Other
7. None |

COMMENTS:	Date Received: 05/18/17
	Courier:
	Hand Delivered: <input type="checkbox"/>
	Bill of Lading: EX STD
	PAGE: 2 of 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Chicago
 2417 Bond St.
 University Park, IL 604
 708-534-5200
 Fax: 708-534-5211 500-128310 COC



Report To:		Bill To:	
Contact: Rich Gnat	Company: KPRG & Associates Inc.		Contact: Nrg
Address: 14665 W. Lilsbon Rd. Suite 2B	Address: Brookfield, WI, 53005		Lab Lot # 500-128310
Phone: 262-781-0475	Phone:		Package Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Fax:	Fax:		Samples Sealed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Email:	PO #: 4501754865		Received on Ice <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			Samples Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A
			Temperature °C of Cooler 30 → 3.1 5.2 → 5.3

Sampler Name: Ian John Howieson		Client Project # 12313.2	Refrg #																Within Hold Time <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Preserv. Indicated <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A
Project Name: Waukegan Station Permit		TestAmerica Project Number: 50004763	Volume																pH Check OK <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Check OK Res Cl₂ Che <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No N/A
Project Location: Waukegan, IL		Date Required	Hard Copy: / /																Sample Labels and COC Agree <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	COC not present
Lab PM: Eric Lang		Fax: / /																	Additional Analyses / Remarks	
Laboratory ID	MS-MSD	Client Sample ID	Sampling Date Time	Matrix	# of Containers	Metals Total	Cl, TDS, SO ₄ , FI Total	NO ₂ Total	NO ₃ - NO ₂ Total	Cyanide Total	Radium 226/228									
1		ELUC MW-10	5-17-17 13:43	W	7	X	X	X	X	X	X									
4		ELUC MW-11	5-18-17 09:50	W	8	X	X	X	X	X	X									
2		ELUC MW-12	5-17-17 12:14	W	7	X	X	X	X	X	X									
5		ELUC MW-14	5-18-17 11:15	W	8	X	X	X	X	X	X									
NB N 3		ELUC MW-15	5-17-17 09:19	W	7	X	X	X	X	X	X									
				W																
				W																
				W																
				W																
				W																
				W																

RELINQUISHED BY: TJA	COMPANY: KPRG	DATE: 5-18-17	TIME: 16:15	RECEIVED BY: [Signature]	COMPANY: TA-CAT	DATE: 5/18/17	TIME: 16:15
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RECEIVED BY:	COMPANY:	DATE:	TIME:

- | | | |
|--|---|--|
| Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Ak | 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 ₂ SO ₄ , Cool to 4°
3. HNO ₃ , 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: <input type="checkbox"/>
	Bill of Lading:
	PAGE 3 of 3

ORIGIN ID: FEPA (830) 325-1300
IAN JOHN HOWIEGON

414 PLAZA DR STE 106

WESTMONT, IL 60559
UNITED STATES US

SHIP DATE: 17MAY17
ACTWT: 26.10 LB
CAD: 008994093/8SFE1801
DIMS: 15x12x13 IN

BILL THIRD PARTY

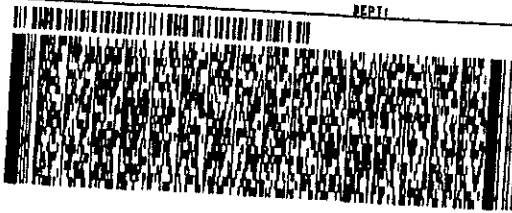
TO ERIC LANG
TESTAMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484

(708) 634-5200

REF:

DEPT:



FedEx
Express



TRK# 7866 0394 4633
0201

THU - 18 MAY 3:00P
STANDARD OVERNIGHT

79 JOTA

60484

IL-US ORD



Part # 180271250 RITE EXP 02/18



500-128310 Waybill

Login Sample Receipt Checklist

Client: KPRG and Associates, Inc.

Job Number: 500-128310-1

Login Number: 128310

List Source: TestAmerica Chicago

List Number: 1

Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is \neq 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	2.5,5.3, 3.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Accreditation/Certification Summary

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

TestAmerica Job ID: 500-128310-1

Laboratory: TestAmerica Chicago

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

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

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