



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 26, 2008

Jessica Vickers
Tetra Tech EM Inc.
1955 Evergreen Blvd.
Duluth, GA 30096

TEL: (678) 775-3104

FAX (678) 775-3138

RE: TVA Kingston

Dear Jessica Vickers:

Order No.: 0812G73

Analytical Environmental Services, Inc. received 12 samples on 12/24/2008 10:40:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/08-06/30/09.

-AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 08/01/09.

These results relate only to the items tested. This report may only be reproduced in full and contains 42 total pages (including cover letter).

If you have any questions regarding these test results, please feel free to call.

Sincerely,

for 
Justin Sasser
Project Manager

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Tetra Tech

Work Order Number 0812 G73

Checklist completed by My 12/24/18
Signature Date

Carrier name: FedEx ☒ UPS ☐ Courier ☐ Client ☐ US Mail ☐ Other ☐

Shipping container/cooler in good condition? Yes ☒ No ☐ Not Present ☐

Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒

Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒

Container/Temp Blank temperature in compliance? ($4^{\circ}\text{C} \pm 2$)* Yes ☒ No ☐

Cooler #1 3-4 Cooler #2 ☐ Cooler #3 ☐ Cooler #4 ☐ Cooler #5 ☐ Cooler #6 ☐

Chain of custody present? Yes ☒ No ☐

Chain of custody signed when relinquished and received? Yes ☒ No ☐

Chain of custody agrees with sample labels? Yes ☐ No ☒

Samples in proper container/bottle? Yes ☐ No ☒

Sample containers intact? Yes ☒ No ☐

Sufficient sample volume for indicated test? Yes ☒ No ☐

All samples received within holding time? Yes ☒ No ☐

Was TAT marked on the COC? Yes ☒ No ☐

Proceed with Standard TAT as per project history? Yes ☐ No ☐ Not Applicable ☒

Water - VOA vials have zero headspace? No VOA vials submitted ☒ Yes ☐ No ☐

Water - pH acceptable upon receipt? Yes ☐ No ☒ Not Applicable ☐

Adjusted? ☒ Checked by (K)

Sample Condition: Good ☒ Other(Explain) ☐

(For diffusive samples or AIHA lead) Is a known blank included? Yes ☐ No ☒

See Case Narrative for resolution of the Non-Conformance.

* Samples do not have to comply with the given range for certain parameters.

\\Quality Assurance\\Checklists Procedures Sign-Off Templates\\Checklists\\Sample Receipt Checklists\\Sample_Cooler_Receipt_Checklist

CLIENT: Tetra Tech EM Inc.
Project: TVA Kingston
Lab Order: 0812G73

CASE NARRATIVE

Sample 0812G73-008A had "KIF-ERM 4.0" listed as the ID on the sample bottle labels, but the ID was listed as "DUP" on the bottle cap.

Per Chris Jones via telephone on 12/24/08, sample 0812G73-008 was reported as "Duplicate." Dissolved TAL metals were required for Dissolved Metals analysis.

Sample 0812G73-003A as received did not meet method specified pH range for the requested test method. No attempt to further adjust the pH was made due to sample matrix.

Samples 0812G73-009A, -010A, and -011A were split from samples 0812G73-009B, -010B, and -011B, respectively, after receipt at the laboratory to prepare sample needed for Total TAL Metals analysis. Chemical preservatives were added to meet method specified pH requirements for the requested test methods.

12/24/08 at 12:05pm - Per Chris Jones via telephone, sample "TT-SS01" (0812G73-012) also required BTEX analysis.

Preserved soil vials in accordance with Method 5035 were not received for sample 0812G73-012A. Preserved soil vials were prepared at the laboratory from the sample jar.

Volatiles Organic Compounds Analysis by Method 8260:

Percent recoveries for all internal standard compounds on sample 0812G73-012A were outside control limits biased low due to suspected matrix interference.

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-001

Client Sample ID: KIF-KWTPI
Collection Date: 12/23/2008 11:47:00 AM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	0.388		0.0230	0.200	mg/L	108148	1	12/24/2008 2:14:33 PM
Antimony	BRL		0.0063	0.0200	mg/L	108148	1	12/24/2008 2:14:33 PM
Arsenic	BRL		0.0031	0.0500	mg/L	108148	1	12/24/2008 2:14:33 PM
Barium	0.0234		0.0016	0.0200	mg/L	108148	1	12/24/2008 2:14:33 PM
Beryllium	BRL		0.0022	0.0100	mg/L	108148	1	12/24/2008 2:14:33 PM
Cadmium	BRL		0.0025	0.0050	mg/L	108148	1	12/24/2008 2:14:33 PM
Calcium	16.1		0.0110	0.100	mg/L	108148	1	12/24/2008 2:14:33 PM
Chromium	BRL		0.0075	0.0100	mg/L	108148	1	12/24/2008 2:14:33 PM
Cobalt	BRL		0.0013	0.0200	mg/L	108148	1	12/24/2008 2:14:33 PM
Copper	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 2:14:33 PM
Iron	0.386		0.0360	0.100	mg/L	108148	1	12/24/2008 2:14:33 PM
Lead	BRL		0.0038	0.0100	mg/L	108148	1	12/24/2008 2:14:33 PM
Magnesium	4.16		0.0190	0.100	mg/L	108148	1	12/24/2008 2:14:33 PM
Manganese	0.0487		0.0019	0.0150	mg/L	108148	1	12/24/2008 4:11:41 PM
Nickel	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:14:33 PM
Potassium	1.95		0.0300	0.500	mg/L	108148	1	12/24/2008 2:14:33 PM
Selenium	BRL		0.0060	0.0200	mg/L	108148	1	12/24/2008 2:14:33 PM
Silver	BRL		0.0003	0.0100	mg/L	108148	1	12/24/2008 2:14:33 PM
Sodium	8.77		0.0063	1.00	mg/L	108148	1	12/24/2008 2:14:33 PM
Thallium	0.0062	J	0.0041	0.0200	mg/L	108148	1	12/24/2008 2:14:33 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 2:14:33 PM
Zinc	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:14:33 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108151	1	12/24/2008 7:00:39 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-002

Client Sample ID: KIF-CRM 4.0
Collection Date: 12/23/2008 2:23:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL								
			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	1.53		0.0230	0.200 mg/L		108148	1	12/24/2008 2:18:21 PM
Antimony	BRL		0.0063	0.0200 mg/L		108148	1	12/24/2008 2:18:21 PM
Arsenic	0.0039	J	0.0031	0.0500 mg/L		108148	1	12/24/2008 2:18:21 PM
Barium	0.0430		0.0016	0.0200 mg/L		108148	1	12/24/2008 2:18:21 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108148	1	12/24/2008 2:18:21 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108148	1	12/24/2008 2:18:21 PM
Calcium	30.8		0.0110	0.100 mg/L		108148	1	12/24/2008 2:18:21 PM
Chromium	BRL		0.0075	0.0100 mg/L		108148	1	12/24/2008 2:18:21 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108148	1	12/24/2008 2:18:21 PM
Copper	BRL		0.0016	0.0100 mg/L		108148	1	12/24/2008 2:18:21 PM
Iron	1.08		0.0360	0.100 mg/L		108148	1	12/24/2008 2:18:21 PM
Lead	0.0046	J	0.0038	0.0100 mg/L		108148	1	12/24/2008 2:18:21 PM
Magnesium	8.51		0.0190	0.100 mg/L		108148	1	12/24/2008 2:18:21 PM
Manganese	0.0938		0.0019	0.0150 mg/L		108148	1	12/24/2008 4:15:17 PM
Nickel	BRL		0.0035	0.0200 mg/L		108148	1	12/24/2008 2:18:21 PM
Potassium	2.44		0.0300	0.500 mg/L		108148	1	12/24/2008 2:18:21 PM
Selenium	BRL		0.0060	0.0200 mg/L		108148	1	12/24/2008 2:18:21 PM
Silver	BRL		0.0003	0.0100 mg/L		108148	1	12/24/2008 2:18:21 PM
Sodium	5.85		0.0063	1.00 mg/L		108148	1	12/24/2008 2:18:21 PM
Thallium	BRL		0.0041	0.0200 mg/L		108148	1	12/24/2008 2:18:21 PM
Vanadium	0.0024	J	0.0016	0.0100 mg/L		108148	1	12/24/2008 2:18:21 PM
Zinc	0.0040	J	0.0035	0.0200 mg/L		108148	1	12/24/2008 2:18:21 PM
MERCURY, TOTAL								
			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020 mg/L		108151	1	12/24/2008 7:02:35 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-003

Client Sample ID: KIF-ERM 0.1
Collection Date: 12/23/2008 2:32:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS) (160.2/SM2540D)								
Residue, Suspended (TSS)	14700		E160.2 6	(E160.2) 29 mg/L		108167	1	Analyst: ML 12/24/2008 12:00:00 P
METALS, DISSOLVED								
			SW6010B	(SAMP_FILT)				Analyst: DJ
Aluminum	0.164	J	0.0230	0.200 mg/L		108149	1	12/24/2008 1:32:00 PM
Antimony	BRL		0.0063	0.0200 mg/L		108149	1	12/24/2008 1:32:00 PM
Arsenic	0.0116	J	0.0031	0.0500 mg/L		108149	1	12/24/2008 1:32:00 PM
Barium	0.0345		0.0016	0.0200 mg/L		108149	1	12/24/2008 1:32:00 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108149	1	12/24/2008 1:32:00 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108149	1	12/24/2008 1:32:00 PM
Calcium	9.38		0.0110	0.100 mg/L		108149	1	12/24/2008 1:32:00 PM
Chromium	BRL		0.0075	0.0100 mg/L		108149	1	12/24/2008 3:48:05 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108149	1	12/24/2008 1:32:00 PM
Copper	0.0017	J	0.0016	0.0100 mg/L		108149	1	12/24/2008 1:32:00 PM
Iron	0.187		0.0360	0.100 mg/L		108149	1	12/24/2008 1:32:00 PM
Lead	BRL		0.0038	0.0100 mg/L		108149	1	12/24/2008 1:32:00 PM
Magnesium	2.20		0.0190	0.100 mg/L		108149	1	12/24/2008 1:32:00 PM
Manganese	0.153		0.0019	0.0150 mg/L		108149	1	12/24/2008 3:48:05 PM
Nickel	BRL		0.0035	0.0200 mg/L		108149	1	12/24/2008 1:32:00 PM
Potassium	1.28		0.0300	0.500 mg/L		108149	1	12/24/2008 1:32:00 PM
Selenium	0.0075	J	0.0060	0.0200 mg/L		108149	1	12/24/2008 1:32:00 PM
Silver	BRL		0.0003	0.0100 mg/L		108149	1	12/24/2008 1:32:00 PM
Sodium	5.65		0.0063	1.00 mg/L		108149	1	12/24/2008 1:32:00 PM
Thallium	0.0077	J	0.0041	0.0200 mg/L		108149	1	12/24/2008 1:32:00 PM
Vanadium	0.0034	J	0.0016	0.0100 mg/L		108149	1	12/24/2008 1:32:00 PM
Zinc	0.0077	J	0.0035	0.0200 mg/L		108149	1	12/24/2008 1:32:00 PM
METALS, TOTAL								
			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	121		0.115	1.00 mg/L		108148	5	12/24/2008 4:32:37 PM
Antimony	0.0065	J	0.0063	0.0200 mg/L		108148	1	12/24/2008 2:38:16 PM
Arsenic	1.49		0.0031	0.0500 mg/L		108148	1	12/24/2008 2:38:16 PM
Barium	1.47		0.0016	0.0200 mg/L		108148	1	12/24/2008 2:38:16 PM
Beryllium	0.0119		0.0022	0.0100 mg/L		108148	1	12/24/2008 2:38:16 PM
Cadmium	0.0155		0.0025	0.0050 mg/L		108148	1	12/24/2008 2:38:16 PM
Calcium	38.2		0.0110	0.100 mg/L		108148	1	12/24/2008 2:38:16 PM
Chromium	0.127		0.0075	0.0100 mg/L		108148	1	12/24/2008 2:38:16 PM
Cobalt	0.0768		0.0013	0.0200 mg/L		108148	1	12/24/2008 2:38:16 PM
Copper	0.225		0.0016	0.0100 mg/L		108148	1	12/24/2008 2:38:16 PM
Iron	67.0		0.180	0.500 mg/L		108148	5	12/24/2008 4:32:37 PM
Lead	0.0754		0.0038	0.0100 mg/L		108148	1	12/24/2008 2:38:16 PM

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Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-003

Client Sample ID: KIF-ERM 0.1
Collection Date: 12/23/2008 2:32:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Magnesium	12.4		0.0190	0.100	mg/L	108148	1	12/24/2008 2:38:16 PM
Manganese	1.89		0.0019	0.0150	mg/L	108148	1	12/24/2008 4:18:52 PM
Nickel	0.103		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:38:16 PM
Potassium	32.1		0.0300	0.500	mg/L	108148	1	12/24/2008 2:38:16 PM
Selenium	0.0180	J	0.0060	0.0200	mg/L	108148	1	12/24/2008 2:38:16 PM
Silver	BRL		0.0003	0.0100	mg/L	108148	1	12/24/2008 2:38:16 PM
Sodium	4.85		0.0063	1.00	mg/L	108148	1	12/24/2008 2:38:16 PM
Thallium	BRL		0.0041	0.0200	mg/L	108148	1	12/24/2008 2:38:16 PM
Vanadium	0.465		0.0016	0.0100	mg/L	108148	1	12/24/2008 2:38:16 PM
Zinc	0.266		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:38:16 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108150	1	12/24/2008 6:39:10 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108151	1	12/24/2008 7:04:31 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-004

Client Sample ID: KIF-CRM 5.5
Collection Date: 12/23/2008 2:10:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	0.986		0.0230	0.200 mg/L		108148	1	12/24/2008 2:42:04 PM
Antimony	BRL		0.0063	0.0200 mg/L		108148	1	12/24/2008 2:42:04 PM
Arsenic	0.0050	J	0.0031	0.0500 mg/L		108148	1	12/24/2008 2:42:04 PM
Barium	0.0385		0.0016	0.0200 mg/L		108148	1	12/24/2008 2:42:04 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108148	1	12/24/2008 2:42:04 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108148	1	12/24/2008 2:42:04 PM
Calcium	35.0		0.0110	0.100 mg/L		108148	1	12/24/2008 2:42:04 PM
Chromium	BRL		0.0075	0.0100 mg/L		108148	1	12/24/2008 2:42:04 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108148	1	12/24/2008 2:42:04 PM
Copper	BRL		0.0016	0.0100 mg/L		108148	1	12/24/2008 2:42:04 PM
Iron	0.733		0.0360	0.100 mg/L		108148	1	12/24/2008 2:42:04 PM
Lead	BRL		0.0038	0.0100 mg/L		108148	1	12/24/2008 2:42:04 PM
Magnesium	9.94		0.0190	0.100 mg/L		108148	1	12/24/2008 2:42:04 PM
Manganese	0.0453		0.0019	0.0150 mg/L		108148	1	12/24/2008 4:29:02 PM
Nickel	BRL		0.0035	0.0200 mg/L		108148	1	12/24/2008 2:42:04 PM
Potassium	2.45		0.0300	0.500 mg/L		108148	1	12/24/2008 2:42:04 PM
Selenium	BRL		0.0060	0.0200 mg/L		108148	1	12/24/2008 2:42:04 PM
Silver	BRL		0.0003	0.0100 mg/L		108148	1	12/24/2008 2:42:04 PM
Sodium	6.83		0.0063	1.00 mg/L		108148	1	12/24/2008 2:42:04 PM
Thallium	0.0043	J	0.0041	0.0200 mg/L		108148	1	12/24/2008 2:42:04 PM
Vanadium	BRL		0.0016	0.0100 mg/L		108148	1	12/24/2008 2:42:04 PM
Zinc	BRL		0.0035	0.0200 mg/L		108148	1	12/24/2008 2:42:04 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020 mg/L		108151	1	12/24/2008 7:06:26 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-005

Client Sample ID: KIF- ERM 2.1
Collection Date: 12/23/2008 3:15:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	1.13		0.0230	0.200	mg/L	108148	1	12/24/2008 2:52:19 PM
Antimony	BRL		0.0063	0.0200	mg/L	108148	1	12/24/2008 2:52:19 PM
Arsenic	BRL		0.0031	0.0500	mg/L	108148	1	12/24/2008 2:52:19 PM
Barium	0.0405		0.0016	0.0200	mg/L	108148	1	12/24/2008 2:52:19 PM
Beryllium	BRL		0.0022	0.0100	mg/L	108148	1	12/24/2008 2:52:19 PM
Cadmium	BRL		0.0025	0.0050	mg/L	108148	1	12/24/2008 2:52:19 PM
Calcium	8.04		0.0110	0.100	mg/L	108148	1	12/24/2008 2:52:19 PM
Chromium	BRL		0.0075	0.0100	mg/L	108148	1	12/24/2008 2:52:19 PM
Cobalt	BRL		0.0013	0.0200	mg/L	108148	1	12/24/2008 2:52:19 PM
Copper	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 2:52:19 PM
Iron	0.660		0.0360	0.100	mg/L	108148	1	12/24/2008 2:52:19 PM
Lead	BRL		0.0038	0.0100	mg/L	108148	1	12/24/2008 2:52:19 PM
Magnesium	2.14		0.0190	0.100	mg/L	108148	1	12/24/2008 2:52:19 PM
Manganese	0.0738		0.0019	0.0150	mg/L	108148	1	12/24/2008 2:52:19 PM
Nickel	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:52:19 PM
Potassium	1.52		0.0300	0.500	mg/L	108148	1	12/24/2008 2:52:19 PM
Selenium	BRL		0.0060	0.0200	mg/L	108148	1	12/24/2008 2:52:19 PM
Silver	BRL		0.0003	0.0100	mg/L	108148	1	12/24/2008 2:52:19 PM
Sodium	2.56		0.0063	1.00	mg/L	108148	1	12/24/2008 2:52:19 PM
Thallium	BRL		0.0041	0.0200	mg/L	108148	1	12/24/2008 2:52:19 PM
Vanadium	0.0026	J	0.0016	0.0100	mg/L	108148	1	12/24/2008 2:52:19 PM
Zinc	0.0046	J	0.0035	0.0200	mg/L	108148	1	12/24/2008 2:52:19 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108151	1	12/24/2008 7:08:22 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-006

Client Sample ID: KIF-ERM 4.0
Collection Date: 12/23/2008 3:30:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	0.338		0.0230	0.200	mg/L	108148	1	12/24/2008 2:03:11 PM
Antimony	BRL		0.0063	0.0200	mg/L	108148	1	12/24/2008 2:03:11 PM
Arsenic	BRL		0.0031	0.0500	mg/L	108148	1	12/24/2008 2:03:11 PM
Barium	0.0304		0.0016	0.0200	mg/L	108148	1	12/24/2008 2:03:11 PM
Beryllium	BRL		0.0022	0.0100	mg/L	108148	1	12/24/2008 2:03:11 PM
Cadmium	BRL		0.0025	0.0050	mg/L	108148	1	12/24/2008 2:03:11 PM
Calcium	7.81		0.0110	0.100	mg/L	108148	1	12/24/2008 2:03:11 PM
Chromium	BRL		0.0075	0.0100	mg/L	108148	1	12/24/2008 2:03:11 PM
Cobalt	BRL		0.0013	0.0200	mg/L	108148	1	12/24/2008 2:03:11 PM
Copper	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 2:03:11 PM
Iron	0.262		0.0360	0.100	mg/L	108148	1	12/24/2008 2:03:11 PM
Lead	BRL		0.0038	0.0100	mg/L	108148	1	12/24/2008 2:03:11 PM
Magnesium	1.78		0.0190	0.100	mg/L	108148	1	12/24/2008 2:03:11 PM
Manganese	0.0368		0.0019	0.0150	mg/L	108148	1	12/24/2008 4:08:08 PM
Nickel	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:03:11 PM
Potassium	1.35		0.0300	0.500	mg/L	108148	1	12/24/2008 2:03:11 PM
Selenium	BRL		0.0060	0.0200	mg/L	108148	1	12/24/2008 2:03:11 PM
Silver	BRL		0.0003	0.0100	mg/L	108148	1	12/24/2008 2:03:11 PM
Sodium	2.53		0.0063	1.00	mg/L	108148	1	12/24/2008 2:03:11 PM
Thallium	0.0041	J	0.0041	0.0200	mg/L	108148	1	12/24/2008 2:03:11 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 2:03:11 PM
Zinc	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:03:11 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108151	1	12/24/2008 6:48:50 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-007

Client Sample ID: TT-ERM 1.9
Collection Date: 12/23/2008 4:55:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	2.20		0.0230	0.200	mg/L	108148	1	12/24/2008 2:55:56 PM
Antimony	BRL		0.0063	0.0200	mg/L	108148	1	12/24/2008 2:55:56 PM
Arsenic	0.0208	J	0.0031	0.0500	mg/L	108148	1	12/24/2008 2:55:56 PM
Barium	0.0565		0.0016	0.0200	mg/L	108148	1	12/24/2008 2:55:56 PM
Beryllium	BRL		0.0022	0.0100	mg/L	108148	1	12/24/2008 2:55:56 PM
Cadmium	BRL		0.0025	0.0050	mg/L	108148	1	12/24/2008 2:55:56 PM
Calcium	9.11		0.0110	0.100	mg/L	108148	1	12/24/2008 2:55:56 PM
Chromium	BRL		0.0075	0.0100	mg/L	108148	1	12/24/2008 2:55:56 PM
Cobalt	BRL		0.0013	0.0200	mg/L	108148	1	12/24/2008 2:55:56 PM
Copper	0.0041	J	0.0016	0.0100	mg/L	108148	1	12/24/2008 2:55:56 PM
Iron	1.37		0.0360	0.100	mg/L	108148	1	12/24/2008 2:55:56 PM
Lead	0.0063	J	0.0038	0.0100	mg/L	108148	1	12/24/2008 2:55:56 PM
Magnesium	2.20		0.0190	0.100	mg/L	108148	1	12/24/2008 2:55:56 PM
Manganese	0.0898		0.0019	0.0150	mg/L	108148	1	12/24/2008 2:55:56 PM
Nickel	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:55:56 PM
Potassium	1.71		0.0300	0.500	mg/L	108148	1	12/24/2008 2:55:56 PM
Selenium	BRL		0.0060	0.0200	mg/L	108148	1	12/24/2008 2:55:56 PM
Silver	BRL		0.0003	0.0100	mg/L	108148	1	12/24/2008 2:55:56 PM
Sodium	2.63		0.0063	1.00	mg/L	108148	1	12/24/2008 2:55:56 PM
Thallium	BRL		0.0041	0.0200	mg/L	108148	1	12/24/2008 2:55:56 PM
Vanadium	0.0074	J	0.0016	0.0100	mg/L	108148	1	12/24/2008 2:55:56 PM
Zinc	0.0371		0.0035	0.0200	mg/L	108148	1	12/24/2008 2:55:56 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108151	1	12/24/2008 7:10:19 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-008

Client Sample ID: DUPLICATE
Collection Date: 12/23/2008 4:57:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	2.58		0.0230	0.200 mg/L		108148	1	12/24/2008 3:04:42 PM
Antimony	BRL		0.0063	0.0200 mg/L		108148	1	12/24/2008 3:04:42 PM
Arsenic	0.0337	J	0.0031	0.0500 mg/L		108148	1	12/24/2008 3:04:42 PM
Barium	0.0643		0.0016	0.0200 mg/L		108148	1	12/24/2008 3:04:42 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108148	1	12/24/2008 3:04:42 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108148	1	12/24/2008 3:04:42 PM
Calcium	9.26		0.0110	0.100 mg/L		108148	1	12/24/2008 3:04:42 PM
Chromium	BRL		0.0075	0.0100 mg/L		108148	1	12/24/2008 3:04:42 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108148	1	12/24/2008 3:04:42 PM
Copper	0.0051	J	0.0016	0.0100 mg/L		108148	1	12/24/2008 3:04:42 PM
Iron	1.77		0.0360	0.100 mg/L		108148	1	12/24/2008 3:04:42 PM
Lead	0.0049	J	0.0038	0.0100 mg/L		108148	1	12/24/2008 3:04:42 PM
Magnesium	2.27		0.0190	0.100 mg/L		108148	1	12/24/2008 3:04:42 PM
Manganese	0.0970		0.0019	0.0150 mg/L		108148	1	12/24/2008 3:04:42 PM
Nickel	BRL		0.0035	0.0200 mg/L		108148	1	12/24/2008 3:04:42 PM
Potassium	1.80		0.0300	0.500 mg/L		108148	1	12/24/2008 3:04:42 PM
Selenium	BRL		0.0060	0.0200 mg/L		108148	1	12/24/2008 3:04:42 PM
Silver	BRL		0.0003	0.0100 mg/L		108148	1	12/24/2008 3:04:42 PM
Sodium	2.68		0.0063	1.00 mg/L		108148	1	12/24/2008 3:04:42 PM
Thallium	BRL		0.0041	0.0200 mg/L		108148	1	12/24/2008 3:04:42 PM
Vanadium	0.0108		0.0016	0.0100 mg/L		108148	1	12/24/2008 3:04:42 PM
Zinc	0.0350		0.0035	0.0200 mg/L		108148	1	12/24/2008 3:04:42 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020 mg/L		108151	1	12/24/2008 7:12:15 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-009

Client Sample ID: KIF-TRM568.5
Collection Date: 12/23/2008 11:33:00 AM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)								
Residue, Suspended (TSS)	10		E160.2 1	(E160.2) 5 mg/L		108167	1	Analyst: ML 12/24/2008 12:00:00 P
METALS, DISSOLVED								
			SW6010B	(SAMP_FILT)				Analyst: DJ
Aluminum	BRL		0.0230	0.200 mg/L		108149	1	12/24/2008 1:35:35 PM
Antimony	BRL		0.0063	0.0200 mg/L		108149	1	12/24/2008 1:35:35 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108149	1	12/24/2008 1:35:35 PM
Barium	0.0176	J	0.0016	0.0200 mg/L		108149	1	12/24/2008 1:35:35 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108149	1	12/24/2008 1:35:35 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108149	1	12/24/2008 1:35:35 PM
Calcium	13.8		0.0110	0.100 mg/L		108149	1	12/24/2008 1:35:35 PM
Chromium	BRL		0.0075	0.0100 mg/L		108149	1	12/24/2008 3:50:53 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108149	1	12/24/2008 1:35:35 PM
Copper	BRL		0.0016	0.0100 mg/L		108149	1	12/24/2008 1:35:35 PM
Iron	BRL		0.0360	0.100 mg/L		108149	1	12/24/2008 1:35:35 PM
Lead	BRL		0.0038	0.0100 mg/L		108149	1	12/24/2008 1:35:35 PM
Magnesium	3.52		0.0190	0.100 mg/L		108149	1	12/24/2008 1:35:35 PM
Manganese	0.0046	J	0.0019	0.0150 mg/L		108149	1	12/24/2008 3:50:53 PM
Nickel	BRL		0.0035	0.0200 mg/L		108149	1	12/24/2008 1:35:35 PM
Potassium	1.57		0.0300	0.500 mg/L		108149	1	12/24/2008 1:35:35 PM
Selenium	BRL		0.0060	0.0200 mg/L		108149	1	12/24/2008 1:35:35 PM
Silver	BRL		0.0003	0.0100 mg/L		108149	1	12/24/2008 1:35:35 PM
Sodium	7.48		0.0063	1.00 mg/L		108149	1	12/24/2008 1:35:35 PM
Thallium	BRL		0.0041	0.0200 mg/L		108149	1	12/24/2008 1:35:35 PM
Vanadium	BRL		0.0016	0.0100 mg/L		108149	1	12/24/2008 1:35:35 PM
Zinc	BRL		0.0035	0.0200 mg/L		108149	1	12/24/2008 1:35:35 PM
METALS, TOTAL								
			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	0.291		0.0230	0.200 mg/L		108148	1	12/24/2008 3:08:57 PM
Antimony	BRL		0.0063	0.0200 mg/L		108148	1	12/24/2008 3:08:57 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108148	1	12/24/2008 3:08:57 PM
Barium	0.0218		0.0016	0.0200 mg/L		108148	1	12/24/2008 3:08:57 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108148	1	12/24/2008 3:08:57 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108148	1	12/24/2008 3:08:57 PM
Calcium	16.2		0.0110	0.100 mg/L		108148	1	12/24/2008 3:08:57 PM
Chromium	BRL		0.0075	0.0100 mg/L		108148	1	12/24/2008 3:08:57 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108148	1	12/24/2008 3:08:57 PM
Copper	BRL		0.0016	0.0100 mg/L		108148	1	12/24/2008 3:08:57 PM
Iron	0.255		0.0360	0.100 mg/L		108148	1	12/24/2008 3:08:57 PM
Lead	BRL		0.0038	0.0100 mg/L		108148	1	12/24/2008 3:08:57 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-009

Client Sample ID: KIF-TRM568.5
Collection Date: 12/23/2008 11:33:00 AM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Magnesium	4.17		0.0190	0.100	mg/L	108148	1	12/24/2008 3:08:57 PM
Manganese	0.0288		0.0019	0.0150	mg/L	108148	1	12/24/2008 3:08:57 PM
Nickel	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 3:08:57 PM
Potassium	1.97		0.0300	0.500	mg/L	108148	1	12/24/2008 3:08:57 PM
Selenium	BRL		0.0060	0.0200	mg/L	108148	1	12/24/2008 3:08:57 PM
Silver	BRL		0.0003	0.0100	mg/L	108148	1	12/24/2008 3:08:57 PM
Sodium	8.90		0.0063	1.00	mg/L	108148	1	12/24/2008 3:08:57 PM
Thallium	BRL		0.0041	0.0200	mg/L	108148	1	12/24/2008 3:08:57 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 3:08:57 PM
Zinc	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 3:08:57 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108150	1	12/24/2008 6:41:05 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108151	1	12/24/2008 7:14:11 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-010

Client Sample ID: KIF-CRM 0.0
Collection Date: 12/23/2008 11:58:00 AM
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS) (160.2/SM2540D)								
Residue, Suspended (TSS)	15		E160.2	(E160.2)	5 mg/L	108167	1	12/24/2008 12:00:00 P
METALS, DISSOLVED								
			SW6010B	(SAMP_FILT)				Analyst: DJ
Aluminum	0.0268	J	0.0230	0.200	mg/L	108149	1	12/24/2008 1:20:45 PM
Antimony	BRL		0.0063	0.0200	mg/L	108149	1	12/24/2008 1:20:45 PM
Arsenic	BRL		0.0031	0.0500	mg/L	108149	1	12/24/2008 1:20:45 PM
Barium	0.0189	J	0.0016	0.0200	mg/L	108149	1	12/24/2008 1:20:45 PM
Beryllium	BRL		0.0022	0.0100	mg/L	108149	1	12/24/2008 1:20:45 PM
Cadmium	BRL		0.0025	0.0050	mg/L	108149	1	12/24/2008 1:20:45 PM
Calcium	14.8		0.0110	0.100	mg/L	108149	1	12/24/2008 1:20:45 PM
Chromium	BRL		0.0075	0.0100	mg/L	108149	1	12/24/2008 3:45:16 PM
Cobalt	BRL		0.0013	0.0200	mg/L	108149	1	12/24/2008 1:20:45 PM
Copper	BRL		0.0016	0.0100	mg/L	108149	1	12/24/2008 1:20:45 PM
Iron	BRL		0.0360	0.100	mg/L	108149	1	12/24/2008 1:20:45 PM
Lead	BRL		0.0038	0.0100	mg/L	108149	1	12/24/2008 1:20:45 PM
Magnesium	3.80		0.0190	0.100	mg/L	108149	1	12/24/2008 1:20:45 PM
Manganese	0.0094	J	0.0019	0.0150	mg/L	108149	1	12/24/2008 3:45:16 PM
Nickel	BRL		0.0035	0.0200	mg/L	108149	1	12/24/2008 1:20:45 PM
Potassium	1.78		0.0300	0.500	mg/L	108149	1	12/24/2008 1:20:45 PM
Selenium	BRL		0.0060	0.0200	mg/L	108149	1	12/24/2008 1:20:45 PM
Silver	BRL		0.0003	0.0100	mg/L	108149	1	12/24/2008 1:20:45 PM
Sodium	8.04		0.0063	1.00	mg/L	108149	1	12/24/2008 1:20:45 PM
Thallium	0.0046	J	0.0041	0.0200	mg/L	108149	1	12/24/2008 1:20:45 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108149	1	12/24/2008 1:20:45 PM
Zinc	BRL		0.0035	0.0200	mg/L	108149	1	12/24/2008 1:20:45 PM
METALS, TOTAL								
			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	0.265		0.0230	0.200	mg/L	108148	1	12/24/2008 3:13:30 PM
Antimony	BRL		0.0063	0.0200	mg/L	108148	1	12/24/2008 3:13:30 PM
Arsenic	0.0035	J	0.0031	0.0500	mg/L	108148	1	12/24/2008 3:13:30 PM
Barium	0.0215		0.0016	0.0200	mg/L	108148	1	12/24/2008 3:13:30 PM
Beryllium	BRL		0.0022	0.0100	mg/L	108148	1	12/24/2008 3:13:30 PM
Cadmium	BRL		0.0025	0.0050	mg/L	108148	1	12/24/2008 3:13:30 PM
Calcium	15.9		0.0110	0.100	mg/L	108148	1	12/24/2008 3:13:30 PM
Chromium	BRL		0.0075	0.0100	mg/L	108148	1	12/24/2008 3:13:30 PM
Cobalt	BRL		0.0013	0.0200	mg/L	108148	1	12/24/2008 3:13:30 PM
Copper	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 3:13:30 PM
Iron	0.234		0.0360	0.100	mg/L	108148	1	12/24/2008 3:13:30 PM
Lead	BRL		0.0038	0.0100	mg/L	108148	1	12/24/2008 3:13:30 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-010

Client Sample ID: KIF-CRM 0.0
Collection Date: 12/23/2008 11:58:00 AM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Magnesium	4.09		0.0190	0.100	mg/L	108148	1	12/24/2008 3:13:30 PM
Manganese	0.0248		0.0019	0.0150	mg/L	108148	1	12/24/2008 3:13:30 PM
Nickel	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 3:13:30 PM
Potassium	1.92		0.0300	0.500	mg/L	108148	1	12/24/2008 3:13:30 PM
Selenium	BRL		0.0060	0.0200	mg/L	108148	1	12/24/2008 3:13:30 PM
Silver	BRL		0.0003	0.0100	mg/L	108148	1	12/24/2008 3:13:30 PM
Sodium	8.67		0.0063	1.00	mg/L	108148	1	12/24/2008 3:13:30 PM
Thallium	BRL		0.0041	0.0200	mg/L	108148	1	12/24/2008 3:13:30 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 3:13:30 PM
Zinc	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 3:13:30 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108150	1	12/24/2008 6:43:00 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108151	1	12/24/2008 7:22:01 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-011

Client Sample ID: KIF-CRM 2.0
Collection Date: 12/23/2008 12:16:00 PM
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS) (160.2/SM2540D)								
Residue, Suspended (TSS)	80		E160.2	(E160.2)	5 mg/L	108167	1	12/24/2008 12:00:00 P
METALS, DISSOLVED								
			SW6010B	(SAMP_FILT)				Analyst: DJ
Aluminum	0.0302	J	0.0230	0.200	mg/L	108149	1	12/24/2008 1:39:14 PM
Antimony	BRL		0.0063	0.0200	mg/L	108149	1	12/24/2008 1:39:14 PM
Arsenic	BRL		0.0031	0.0500	mg/L	108149	1	12/24/2008 1:39:14 PM
Barium	0.0311		0.0016	0.0200	mg/L	108149	1	12/24/2008 1:39:14 PM
Beryllium	BRL		0.0022	0.0100	mg/L	108149	1	12/24/2008 1:39:14 PM
Cadmium	BRL		0.0025	0.0050	mg/L	108149	1	12/24/2008 1:39:14 PM
Calcium	22.9		0.0110	0.100	mg/L	108149	1	12/24/2008 1:39:14 PM
Chromium	BRL		0.0075	0.0100	mg/L	108149	1	12/24/2008 3:53:43 PM
Cobalt	BRL		0.0013	0.0200	mg/L	108149	1	12/24/2008 1:39:14 PM
Copper	BRL		0.0016	0.0100	mg/L	108149	1	12/24/2008 1:39:14 PM
Iron	0.0481	J	0.0360	0.100	mg/L	108149	1	12/24/2008 1:39:14 PM
Lead	BRL		0.0038	0.0100	mg/L	108149	1	12/24/2008 1:39:14 PM
Magnesium	6.30		0.0190	0.100	mg/L	108149	1	12/24/2008 1:39:14 PM
Manganese	0.0149	J	0.0019	0.0150	mg/L	108149	1	12/24/2008 3:53:43 PM
Nickel	BRL		0.0035	0.0200	mg/L	108149	1	12/24/2008 1:39:14 PM
Potassium	1.58		0.0300	0.500	mg/L	108149	1	12/24/2008 1:39:14 PM
Selenium	BRL		0.0060	0.0200	mg/L	108149	1	12/24/2008 1:39:14 PM
Silver	BRL		0.0003	0.0100	mg/L	108149	1	12/24/2008 1:39:14 PM
Sodium	4.50		0.0063	1.00	mg/L	108149	1	12/24/2008 1:39:14 PM
Thallium	BRL		0.0041	0.0200	mg/L	108149	1	12/24/2008 1:39:14 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108149	1	12/24/2008 1:39:14 PM
Zinc	BRL		0.0035	0.0200	mg/L	108149	1	12/24/2008 1:39:14 PM
METALS, TOTAL								
			SW6010B	(SW3010A)				Analyst: DJ
Aluminum	0.905		0.0230	0.200	mg/L	108148	1	12/24/2008 3:17:06 PM
Antimony	BRL		0.0063	0.0200	mg/L	108148	1	12/24/2008 3:17:06 PM
Arsenic	0.0031	J	0.0031	0.0500	mg/L	108148	1	12/24/2008 3:17:06 PM
Barium	0.0436		0.0016	0.0200	mg/L	108148	1	12/24/2008 3:17:06 PM
Beryllium	BRL		0.0022	0.0100	mg/L	108148	1	12/24/2008 3:17:06 PM
Cadmium	BRL		0.0025	0.0050	mg/L	108148	1	12/24/2008 3:17:06 PM
Calcium	27.3		0.0110	0.100	mg/L	108148	1	12/24/2008 3:17:06 PM
Chromium	BRL		0.0075	0.0100	mg/L	108148	1	12/24/2008 3:17:06 PM
Cobalt	BRL		0.0013	0.0200	mg/L	108148	1	12/24/2008 3:17:06 PM
Copper	BRL		0.0016	0.0100	mg/L	108148	1	12/24/2008 3:17:06 PM
Iron	0.607		0.0360	0.100	mg/L	108148	1	12/24/2008 3:17:06 PM
Lead	BRL		0.0038	0.0100	mg/L	108148	1	12/24/2008 3:17:06 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-011

Client Sample ID: KIF-CRM 2.0
Collection Date: 12/23/2008 12:16:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: DJ
Magnesium	7.57		0.0190	0.100	mg/L	108148	1	12/24/2008 3:17:06 PM
Manganese	0.0512		0.0019	0.0150	mg/L	108148	1	12/24/2008 3:17:06 PM
Nickel	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 3:17:06 PM
Potassium	2.14		0.0300	0.500	mg/L	108148	1	12/24/2008 3:17:06 PM
Selenium	BRL		0.0060	0.0200	mg/L	108148	1	12/24/2008 3:17:06 PM
Silver	BRL		0.0003	0.0100	mg/L	108148	1	12/24/2008 3:17:06 PM
Sodium	5.43		0.0063	1.00	mg/L	108148	1	12/24/2008 3:17:06 PM
Thallium	BRL		0.0041	0.0200	mg/L	108148	1	12/24/2008 3:17:06 PM
Vanadium	0.0024	J	0.0016	0.0100	mg/L	108148	1	12/24/2008 3:17:06 PM
Zinc	BRL		0.0035	0.0200	mg/L	108148	1	12/24/2008 3:17:06 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108150	1	12/24/2008 6:27:28 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108151	1	12/24/2008 7:23:57 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	<	Less than Result value
	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
			BRL	Not detected at MDL

Analytical Environmental Services, Inc.

Date: 26-Dec-08

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812G73
Project: TVA Kingston
Lab ID: 0812G73-012

Client Sample ID: TT-SS01
Collection Date: 12/23/2008 4:55:00 PM
Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL								
			SW6010B		(SW3050B)			Analyst: DJ
Aluminum	26400		49.3	562	mg/Kg-dry	108096	10	12/24/2008 5:18:15 PM
Antimony	1.27	J	0.214	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Arsenic	44.8		0.169	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Barium	864		0.169	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Beryllium	6.25		0.0157	2.81	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Cadmium	0.577	J	0.0371	2.81	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Calcium	18300		220	562	mg/Kg-dry	108096	10	12/24/2008 5:18:15 PM
Chromium	41.3		0.0742	2.81	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Cobalt	17.7		0.0202	2.81	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Copper	59.9		0.0472	2.81	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Iron	12000		14.3	562	mg/Kg-dry	108096	10	12/24/2008 5:18:15 PM
Lead	20.3		0.112	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Magnesium	3900		1.32	56.2	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Manganese	66.9		0.202	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Nickel	29.4		0.0281	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Potassium	3280		1.23	112	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Selenium	3.13	J	0.450	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Silver	BRL		0.0157	2.81	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Sodium	672		4.87	112	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Thallium	4.36	J	0.202	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Vanadium	107		0.0270	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
Zinc	55.6		0.720	5.62	mg/Kg-dry	108096	1	12/24/2008 5:07:29 PM
TOTAL MERCURY								
			SW7471A		(SW7471)			Analyst: MAW
Mercury	0.0879	J	0.00478	0.137	mg/Kg-dry	108154	1	12/24/2008 2:41:24 PM
VOLATILE ORGANICS								
			SW8260B		(SW5035)			Analyst: JE
Benzene	BRL		0.18	1.3	ug/Kg-dry	108171	1	12/24/2008 3:25:00 PM
Toluene	BRL		0.17	1.3	ug/Kg-dry	108171	1	12/24/2008 3:25:00 PM
Ethylbenzene	BRL		0.22	1.3	ug/Kg-dry	108171	1	12/24/2008 3:25:00 PM
m,p-Xylene	BRL		0.47	1.3	ug/Kg-dry	108171	1	12/24/2008 3:25:00 PM
o-Xylene	BRL		0.49	1.3	ug/Kg-dry	108171	1	12/24/2008 3:25:00 PM
Surr: 4-Bromofluorobenzene	64.4		0	56-145	%REC	108171	1	12/24/2008 3:25:00 PM
PERCENT MOISTURE								
			D2216					Analyst: MAS
Percent Moisture	27.7		0	0	wt%		1	12/24/2008 12:00:00 P

Qualifiers: * Value exceeds Maximum Contaminant Level
> Greater than Result value
E Estimated value above quantitation range
J Estimated value detected below Reporting Limit
Rpt Lim Reporting Limit

< Less than Result value
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
N Analyte not NELAC certified
S Spike Recovery outside limits due to matrix
BRL Not detected at MDL

Lab Order: 0812G73
 Client: Tetra Tech EM Inc.
 Project: TVA Kingston

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0812G73-001A	KIF-KWTPI	12/23/2008 11:47:00 AM	Surface Water	TOTAL MERCURY		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
0812G73-002A	KIF-CRM 4.0	12/23/2008 2:23:00 PM		TOTAL MERCURY		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
0812G73-003A	KIF-ERM 0.1	12/23/2008 2:32:00 PM		TOTAL MERCURY		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
0812G73-003B				TOTAL METALS BY ICP		12/24/2008	12/24/2008
				DISSOLVED METALS BY ICP		12/24/2008	12/24/2008
				DISSOLVED METALS BY ICP		12/24/2008	12/24/2008
				MERCURY, DISSOLVED		12/24/2008	12/24/2008
				Residue, Suspended (TSS)		12/24/2008	12/24/2008
0812G73-004A	KIF-CRM 5.5	12/23/2008 2:10:00 PM		TOTAL MERCURY		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
0812G73-005A	KIF-ERM 2.1	12/23/2008 3:15:00 PM		TOTAL METALS BY ICP		12/24/2008	12/24/2008
				TOTAL MERCURY		12/24/2008	12/24/2008
0812G73-006A	KIF-ERM 4.0	12/23/2008 3:30:00 PM		TOTAL METALS BY ICP		12/24/2008	12/24/2008
				TOTAL MERCURY		12/24/2008	12/24/2008
0812G73-007A	TT-ERM 1.9	12/23/2008 4:55:00 PM		TOTAL METALS BY ICP		12/24/2008	12/24/2008
0812G73-008A	DUPLICATE	12/23/2008 4:57:00 PM		TOTAL MERCURY		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
0812G73-009A	KIF-TRM568.5	12/23/2008 11:33:00 AM		TOTAL MERCURY		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008

Lab Order: 0812G73
 Client: Tetra Tech EM Inc.
 Project: TVA Kingston

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCPL Date	Prep Date	Analysis Date
0812G73-009B	KIF-TRM568.5	12/23/2008 11:33:00 AM	Surface Water	DISSOLVED METALS BY ICP		12/24/2008	12/24/2008
				DISSOLVED METALS BY ICP		12/24/2008	12/24/2008
				MERCURY, DISSOLVED		12/24/2008	12/24/2008
				Residue, Suspended (TSS)		12/24/2008	12/24/2008
0812G73-010A	KIF-CRM 0.0	12/23/2008 11:58:00 AM		TOTAL MERCURY		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
0812G73-010B				DISSOLVED METALS BY ICP		12/24/2008	12/24/2008
				DISSOLVED METALS BY ICP		12/24/2008	12/24/2008
				MERCURY, DISSOLVED		12/24/2008	12/24/2008
				Residue, Suspended (TSS)		12/24/2008	12/24/2008
0812G73-011A	KIF-CRM 2.0	12/23/2008 12:16:00 PM		TOTAL MERCURY		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/24/2008	12/24/2008
0812G73-011B				DISSOLVED METALS BY ICP		12/24/2008	12/24/2008
				DISSOLVED METALS BY ICP		12/24/2008	12/24/2008
				MERCURY, DISSOLVED		12/24/2008	12/24/2008
				Residue, Suspended (TSS)		12/24/2008	12/24/2008
0812G73-012A	TT-SS01	12/23/2008 4:55:00 PM	Sediment	VOLATILE ORGANICS: BTEX		12/24/2008	12/24/2008
				VOLATILE ORGANICS: BTEX		12/24/2008	12/24/2008
0812G73-012B				MERCURY		12/24/2008	12/24/2008
				PERCENT MOISTURE		12/24/2008	12/24/2008
				TOTAL METALS BY ICP		12/23/2008	12/24/2008
				TOTAL METALS BY ICP		12/23/2008	12/24/2008

CLIENT: Tetra Tech EM Inc.

Work Order: 0812G73

Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2

Sample ID: MB-108167	SampType: MBLK	TestCode: 160.2	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139624
Client ID:	Batch ID: 108167	TestNo: E160.2		Analysis Date: 12/24/2008	SeqNo: 2861338
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Residue, Suspended (TSS)	BRL	5.00			

Sample ID: 0812G90-001ADUP	SampType: DUP	TestCode: 160.2	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139624
Client ID:	Batch ID: 108167	TestNo: E160.2		Analysis Date: 12/24/2008	SeqNo: 2861338
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Residue, Suspended (TSS)	988	10.0	0	0	0 0 960 2.87 30

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_S

Sample ID: MB-108096	SampType: MBLK	TestCode: 6010B_TAL_	Units: mg/Kg	Prep Date: 12/23/2008	RunNo: 139613
Client ID:	Batch ID: 108096	TestNo: SW6010B		Analysis Date: 12/23/2008	SeqNo: 2862406

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	BRL	50.0	0	0	0	0	0	0	0	0	
Antimony	BRL	5.00	0	0	0	0	0	0	0	0	
Arsenic	BRL	5.00	0	0	0	0	0	0	0	0	
Barium	BRL	5.00	0	0	0	0	0	0	0	0	
Beryllium	BRL	2.50	0	0	0	0	0	0	0	0	
Cadmium	BRL	2.50	0	0	0	0	0	0	0	0	
Calcium	26.98	50.0	0	0	0	0	0	0	0	0	J
Chromium	0.1341	2.50	0	0	0	0	0	0	0	0	J
Cobalt	BRL	2.50	0	0	0	0	0	0	0	0	
Copper	0.1093	2.50	0	0	0	0	0	0	0	0	J
Iron	1.985	50.0	0	0	0	0	0	0	0	0	J
Lead	BRL	5.00	0	0	0	0	0	0	0	0	
Magnesium	1.387	50.0	0	0	0	0	0	0	0	0	J
Manganese	BRL	5.00	0	0	0	0	0	0	0	0	
Nickel	0.5571	5.00	0	0	0	0	0	0	0	0	J
Potassium	1.24	100	0	0	0	0	0	0	0	0	J
Selenium	BRL	5.00	0	0	0	0	0	0	0	0	
Silver	BRL	2.50	0	0	0	0	0	0	0	0	
Sodium	5.56	100	0	0	0	0	0	0	0	0	J
Thallium	BRL	5.00	0	0	0	0	0	0	0	0	
Vanadium	BRL	5.00	0	0	0	0	0	0	0	0	
Zinc	0.9846	5.00	0	0	0	0	0	0	0	0	J

Sample ID: LCS-108096	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/Kg	Prep Date: 12/23/2008	RunNo: 139613
Client ID:	Batch ID: 108096	TestNo: SW6010B		Analysis Date: 12/23/2008	SeqNo: 2862405

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	479.6	50.0	500	0	95.9	80	120	0	0	0	
Antimony	47.67	5.00	50	0	95.3	80	120	0	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_S

Sample ID: LCS-108096	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/Kg	Prep Date: 12/23/2008	RunNo: 139613						
Client ID:	Batch ID: 108096	TestNo: SW6010B		Analysis Date: 12/23/2008	SeqNo: 2862405						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	48.8	5.00	50	0	97.6	80	120	0	0		
Barium	49.11	5.00	50	0	98.2	80	120	0	0		
Beryllium	49.52	2.50	50	0	99	80	120	0	0		
Cadmium	48.5	2.50	50	0	97	80	120	0	0		
Calcium	541.4	50.0	500	26.98	103	80	120	0	0		
Chromium	51.95	2.50	50	0.1341	104	80	120	0	0		
Cobalt	49.42	2.50	50	0	98.8	80	120	0	0		
Copper	49.7	2.50	50	0.1093	99.2	80	120	0	0		
Iron	500	50.0	500	1.985	99.6	80	120	0	0		
Lead	48.96	5.00	50	0	97.9	80	120	0	0		
Magnesium	477.7	50.0	500	1.387	95.3	80	120	0	0		
Manganese	49.42	5.00	50	0	98.8	80	120	0	0		
Nickel	51.04	5.00	50	0.5571	101	80	120	0	0		
Potassium	451.6	100	500	1.24	90.1	80	120	0	0		
Selenium	48.13	5.00	50	0	96.3	80	120	0	0		
Silver	4.801	2.50	5	0	96	80	120	0	0		
Sodium	473.6	100	500	5.56	93.6	80	120	0	0		
Thallium	47.45	5.00	50	0	94.9	80	120	0	0		
Vanadium	49.84	5.00	50	0	99.7	80	120	0	0		
Zinc	51.44	5.00	50	0.9846	101	80	120	0	0		

Sample ID: 0812E02-007AMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/Kg-dry	Prep Date: 12/23/2008	RunNo: 139613						
Client ID:	Batch ID: 108096	TestNo: SW6010B		Analysis Date: 12/23/2008	SeqNo: 2862409						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	3557	53.5	535.4	3056	93.5	75	125	0	0		
Antimony	61.53	5.35	53.54	27.55	63.5	75	125	0	0		S
Arsenic	54.26	5.35	53.54	7.21	87.9	75	125	0	0		
Barium	130.3	5.35	53.54	83.19	88	75	125	0	0		

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit		E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_S

Sample ID: 0812E02-007AMS		SampType: MS		TestCode: 6010B_TAL_		Units: mg/Kg-dry		Prep Date: 12/23/2008		RunNo: 139613	
Client ID:		Batch ID: 108096		TestNo: SW6010B				Analysis Date: 12/23/2008		SeqNo: 2862409	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	48.69	2.68	53.54	0.5446	89.9	75	125	0	0		
Cadmium	45.28	2.68	53.54	0.1004	84.4	75	125	0	0		
Cobalt	142	2.68	53.54	100.9	76.9	75	125	0	0		
Lead	401.2	5.35	53.54	301.7	186	75	125	0	0		S
Magnesium	1315	53.5	535.4	942	69.7	75	125	0	0		S
Manganese	466	5.35	53.54	403.7	116	75	125	0	0		
Potassium	2035	107	535.4	1479	104	75	125	0	0		
Selenium	41.62	5.35	53.54	0	77.7	75	125	0	0		
Silver	5.015	2.68	5.354	0.3611	86.9	75	125	0	0		
Thallium	27.66	5.35	53.54	0	51.7	75	125	0	0		S
Vanadium	64.36	5.35	53.54	17.29	87.9	75	125	0	0		
Zinc	668.3	5.35	53.54	659.6	16.2	75	125	0	0		S

Sample ID: 0812E02-007AMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/Kg-dry	Prep Date: 12/23/2008	RunNo: 139613						
Client ID:	Batch ID: 108096	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2862441						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	18420	535	535.4	17790	118	75	125	0	0		
Chromium	6448	26.8	53.54	6391	106	75	125	0	0		
Copper	5164	26.8	53.54	5168	-7.65	75	125	0	0		S
Sodium	4847	1070	535.4	4558	54	75	125	0	0		S

Sample ID: 0812E02-007AMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/Kg-dry	Prep Date: 12/23/2008	RunNo: 139613						
Client ID:	Batch ID: 108096	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2862459						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	148400	5350	535.4	143000	1010	75	125	0	0		S
Nickel	85280	535	53.54	88350	-5720	75	125	0	0		S

Qualifiers:

<	Less than Result value	>	Greater than Result value
BRL	Below Reporting Limit	E	Estimated value above quantitation range
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix
		B	Analyte detected in the associated Method Blank
		H	Holding times for preparation or analysis exceeded
		R	RPD outside limits due to matrix

CLIENT: Tetra Tech EM Inc.
Work Order: 0812G73
Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_S

Sample ID: 0812E02-007AMSD		SampType: MSD		TestCode: 6010B_TAL_		Units: mg/Kg-dry		Prep Date: 12/23/2008		RunNo: 139613	
Client ID:		Batch ID: 108096		TestNo: SW6010B		Analysis Date: 12/23/2008		SeqNo: 2862411			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	3637	54.5	54.5	3056	107	75	125	3557	2.23	20	
Antimony	60.96	5.45	54.5	27.55	61.3	75	125	61.53	0.931	20	S
Arsenic	54.36	5.45	54.5	7.21	86.5	75	125	54.26	0.180	20	
Barium	146.1	5.45	54.5	83.19	115	75	125	130.3	11.4	20	
Beryllium	48.81	2.73	54.5	0.5446	88.5	75	125	48.69	0.230	20	
Cadmium	45.36	2.73	54.5	0.1004	83	75	125	45.28	0.178	20	
Cobalt	144.8	2.73	54.5	100.9	80.6	75	125	142	1.91	20	
Lead	368.9	5.45	54.5	301.7	123	75	125	401.2	8.39	20	
Magnesium	1352	54.5	54.5	942	75.2	75	125	1315	2.76	20	
Manganese	472.2	5.45	54.5	403.7	126	75	125	466	1.32	20	S
Potassium	2075	109	54.5	1479	109	75	125	2035	1.97	20	
Selenium	40.2	5.45	54.5	0	73.7	75	125	41.62	3.47	20	S
Silver	5.307	2.73	5.45	0.3611	90.8	75	125	5.015	5.66	20	
Thallium	28.13	5.45	54.5	0	51.6	75	125	27.66	1.69	20	S
Vanadium	65.58	5.45	54.5	17.29	88.6	75	125	64.36	1.87	20	
Zinc	688.6	5.45	54.5	659.6	53.2	75	125	668.3	2.99	20	S

Sample ID: 0812E02-007AMSD		SampType: MSD		TestCode: 6010B_TAL_		Units: mg/Kg-dry		Prep Date: 12/23/2008		RunNo: 139613	
Client ID:		Batch ID: 108096		TestNo: SW6010B		Analysis Date: 12/24/2008		SeqNo: 2862443			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	20310	545	545	17790	463	75	125	18420	9.76	20	S
Chromium	6605	27.3	54.5	6391	393	75	125	6448	2.41	20	S
Copper	5406	27.3	54.5	5168	437	75	125	5164	4.58	20	S
Sodium	4926	1090	545	4558	67.5	75	125	4847	1.62	20	S

Qualifiers:		<		>		B		Analyte detected in the associated Method Blank	
BRL	Below Reporting Limit	Less than Result value		E		H		Holding times for preparation or analysis exceeded	
J	Estimated value detected below Reporting Limit	Estimated value above quantitation range		N		R		RPD outside limits due to matrix	
Rpt Lim	Reporting Limit	Analyte not NELAC certified		S					
		Spike Recovery outside limits due to matrix							

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_S

Sample ID: 0812E02-007AMSD		SampType: MSD	TestCode: 6010B_TAL_		Units: mg/Kg-dry	Prep Date: 12/23/2008		RunNo: 139613			
Client ID:		Batch ID: 108096	TestNo: SW6010B		Analysis Date: 12/24/2008		SeqNo: 2862462				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	155100	5450	545	143000	2220	75	125	148400	4.40	20	S
Nickel	87620	545	54.5	88350	-1340	75	125	85280	2.70	20	S

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_D

Sample ID: MB-108149	SampType: MBLK	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139609						
Client ID:	Batch ID: 108149	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861362						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	BRL	0.200	0	0	0	0	0	0	0	0	
Antimony	BRL	0.0200	0	0	0	0	0	0	0	0	
Arsenic	BRL	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.0200	0	0	0	0	0	0	0	0	
Beryllium	BRL	0.0100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00500	0	0	0	0	0	0	0	0	
Calcium	BRL	0.100	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0100	0	0	0	0	0	0	0	0	
Cobalt	BRL	0.0200	0	0	0	0	0	0	0	0	
Copper	BRL	0.0100	0	0	0	0	0	0	0	0	
Iron	BRL	0.100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0100	0	0	0	0	0	0	0	0	
Magnesium	BRL	0.100	0	0	0	0	0	0	0	0	
Manganese	BRL	0.0150	0	0	0	0	0	0	0	0	
Nickel	BRL	0.0200	0	0	0	0	0	0	0	0	
Potassium	BRL	0.500	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.0100	0	0	0	0	0	0	0	0	
Sodium	BRL	1.00	0	0	0	0	0	0	0	0	
Thallium	BRL	0.0200	0	0	0	0	0	0	0	0	
Vanadium	BRL	0.0100	0	0	0	0	0	0	0	0	
Zinc	BRL	0.0200	0	0	0	0	0	0	0	0	

Sample ID: LCS-108149	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139609						
Client ID:	Batch ID: 108149	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861059						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	9.97	0.200	10	0	99.7	80	120	0	0	0	
Antimony	1.013	0.0200	1	0	101	80	120	0	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_D

Sample ID: LCS-108149	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139609						
Client ID:	Batch ID: 108149	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861059						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	1.025	0.0500	1	0	103	80	120	0	0		
Barium	1.002	0.0200	1	0	100	80	120	0	0		
Beryllium	1.013	0.0100	1	0	101	80	120	0	0		
Cadmium	1.018	0.00500	1	0	102	80	120	0	0		
Calcium	9.919	0.100	10	0	99.2	80	120	0	0		
Chromium	1.075	0.0100	1	0	108	80	120	0	0		
Cobalt	1.013	0.0200	1	0	101	80	120	0	0		
Copper	0.9996	0.0100	1	0	100	80	120	0	0		
Iron	10.1	0.100	10	0	101	80	120	0	0		
Lead	0.999	0.0100	1	0	99.9	80	120	0	0		
Magnesium	10.1	0.100	10	0	101	80	120	0	0		
Manganese	1.143	0.0150	1	0	114	80	120	0	0		
Nickel	1.009	0.0200	1	0	101	80	120	0	0		
Potassium	10.15	0.500	10	0	101	80	120	0	0		
Selenium	0.9936	0.0200	1	0	99.4	80	120	0	0		
Silver	0.09945	0.0100	0.1	0	99.5	80	120	0	0		
Sodium	10.03	1.00	10	0	100	80	120	0	0		
Thallium	0.9902	0.0200	1	0	99	80	120	0	0		
Vanadium	1.006	0.0100	1	0	101	80	120	0	0		
Zinc	1.011	0.0200	1	0	101	80	120	0	0		

Sample ID: 0812G73-010BMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139609						
Client ID: KIF-CRM 0.0	Batch ID: 108149	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861062						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	9.608	0.200	10	0.02676	95.8	75	125	0	0		
Antimony	1	0.0200	1	0	100	75	125	0	0		
Arsenic	1.013	0.0500	1	0	101	75	125	0	0		
Barium	0.9931	0.0200	1	0.01891	97.4	75	125	0	0		

Qualifiers:

<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_D

Sample ID: 0812G73-010BMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139609						
Client ID: KIF-CRM 0.0	Batch ID: 108149	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861062						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Beryllium	0.9917	0.0100	1	0	99.2	75	125	0	0		
Cadmium	0.9935	0.00500	1	0	99.4	75	125	0	0		
Calcium	23.32	0.100	10	14.85	84.7	75	125	0	0		
Chromium	1.029	0.0100	1	0.02611	100	75	125	0	0		
Cobalt	0.9848	0.0200	1	0	98.5	75	125	0	0		
Copper	0.9755	0.0100	1	0	97.6	75	125	0	0		
Iron	9.911	0.100	10	0	99.1	75	125	0	0		
Lead	0.9794	0.0100	1	0	97.9	75	125	0	0		
Magnesium	12.93	0.100	10	3.802	91.2	75	125	0	0		
Manganese	1.194	0.0150	1	0.05757	114	75	125	0	0		
Nickel	0.9827	0.0200	1	0	98.3	75	125	0	0		
Potassium	11.78	0.500	10	1.779	100	75	125	0	0		
Selenium	0.9899	0.0200	1	0	99	75	125	0	0		
Silver	0.09719	0.0100	0.1	0	97.2	75	125	0	0		
Sodium	16.52	1.00	10	8.042	84.8	75	125	0	0		
Thallium	0.9552	0.0200	1	0.004626	95.1	75	125	0	0		
Vanadium	0.9833	0.0100	1	0	98.3	75	125	0	0		
Zinc	0.9888	0.0200	1	0	98.9	75	125	0	0		

Sample ID: 0812G73-010BMSD	SampType: MSD	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139609						
Client ID: KIF-CRM 0.0	Batch ID: 108149	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861063						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	9.672	0.200	10	0.02676	96.5	75	125	9.608	0.671	20	
Antimony	1.004	0.0200	1	0	100	75	125	1	0.402	20	
Arsenic	1.025	0.0500	1	0	102	75	125	1.013	1.17	20	
Barium	0.9998	0.0200	1	0.01891	98.1	75	125	0.9931	0.672	20	
Beryllium	0.9865	0.0100	1	0	99.9	75	125	0.9917	0.684	20	
Cadmium	1.004	0.00500	1	0	100	75	125	0.9935	1.07	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_D

Sample ID: 0812G73-010BMSD		SampType: MSD		TestCode: 6010B_TAL_		Units: mg/L		Prep Date: 12/24/2008		RunNo: 139809	
Client ID: KIF-CRM 0.0		Batch ID: 108149		TestNo: SW6010B				Analysis Date: 12/24/2008		SeqNo: 2861063	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	23.4	0.100	10	14.85	85.5	75	125	23.32	0.352	20	
Chromium	1.029	0.0100	1	0.02611	100	75	125	1.029	0.0155	20	
Cobalt	0.9942	0.0200	1	0	99.4	75	125	0.9848	0.943	20	
Copper	0.9825	0.0100	1	0	98.2	75	125	0.9755	0.711	20	
Iron	10.01	0.100	10	0	100	75	125	9.911	0.947	20	
Lead	0.9887	0.0100	1	0	98.9	75	125	0.9794	0.944	20	
Magnesium	12.99	0.100	10	3.802	91.9	75	125	12.93	0.511	20	
Manganese	1.178	0.0150	1	0.05757	112	75	125	1.194	1.32	20	
Nickel	0.9894	0.0200	1	0	98.9	75	125	0.9827	0.677	20	
Potassium	11.84	0.500	10	1.779	101	75	125	11.78	0.534	20	
Selenium	1.002	0.0200	1	0	100	75	125	0.9899	1.18	20	
Silver	0.09789	0.0100	0.1	0	97.9	75	125	0.09719	0.709	20	
Sodium	16.46	1.00	10	8.042	84.2	75	125	16.52	0.338	20	
Thallium	0.9679	0.0200	1	0.004626	96.3	75	125	0.9552	1.32	20	
Vanadium	0.9918	0.0100	1	0	99.2	75	125	0.9833	0.861	20	
Zinc	0.9984	0.0200	1	0	99.8	75	125	0.9888	0.959	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit		E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_T

Sample ID: MB-108148	SampType: MBLK	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139622						
Client ID:	Batch ID: 108148	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861450						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	BRL	0.200	0	0	0	0	0	0	0	0	
Antimony	BRL	0.0200	0	0	0	0	0	0	0	0	
Arsenic	BRL	0.0500	0	0	0	0	0	0	0	0	
Barium	BRL	0.0200	0	0	0	0	0	0	0	0	
Beryllium	BRL	0.0100	0	0	0	0	0	0	0	0	
Cadmium	BRL	0.00500	0	0	0	0	0	0	0	0	
Calcium	BRL	0.100	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0100	0	0	0	0	0	0	0	0	
Cobalt	BRL	0.0200	0	0	0	0	0	0	0	0	
Copper	BRL	0.0100	0	0	0	0	0	0	0	0	
Iron	BRL	0.100	0	0	0	0	0	0	0	0	
Lead	BRL	0.0100	0	0	0	0	0	0	0	0	
Magnesium	BRL	0.100	0	0	0	0	0	0	0	0	
Manganese	BRL	0.0150	0	0	0	0	0	0	0	0	
Nickel	BRL	0.0200	0	0	0	0	0	0	0	0	
Potassium	BRL	0.500	0	0	0	0	0	0	0	0	
Selenium	BRL	0.0200	0	0	0	0	0	0	0	0	
Silver	BRL	0.0100	0	0	0	0	0	0	0	0	
Sodium	BRL	1.00	0	0	0	0	0	0	0	0	
Thallium	0.00522	0.0200	0	0	0	0	0	0	0	0	J
Vanadium	BRL	0.0100	0	0	0	0	0	0	0	0	
Zinc	BRL	0.0200	0	0	0	0	0	0	0	0	

Sample ID: LCS-108148	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139622						
Client ID:	Batch ID: 108148	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861240						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	10.18	0.200	10	0	102	85	115	0	0	0	
Antimony	1.036	0.0200	1	0	104	85	115	0	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit		E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_T

Sample ID: LCS-108148	SampleType: LCS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139622
Client ID:	Batch ID: 108148	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861240

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	1.058	0.0500	1	0	106	85	115	0	0	0	
Barium	1.024	0.0200	1	0	102	85	115	0	0	0	
Beryllium	1.035	0.0100	1	0	104	85	115	0	0	0	
Cadmium	1.046	0.00500	1	0	105	85	115	0	0	0	
Calcium	10.16	0.100	10	0	102	85	115	0	0	0	
Chromium	1.033	0.0100	1	0	103	85	115	0	0	0	
Cobalt	1.041	0.0200	1	0	104	85	115	0	0	0	
Copper	1.025	0.0100	1	0	103	85	115	0	0	0	
Iron	10.35	0.100	10	0	104	85	115	0	0	0	
Lead	1.031	0.0100	1	0	103	85	115	0	0	0	
Magnesium	10.32	0.100	10	0	103	85	115	0	0	0	
Manganese	1.148	0.0150	1	0	115	85	115	0	0	0	
Nickel	1.038	0.0200	1	0	104	85	115	0	0	0	
Potassium	10.38	0.500	10	0	104	85	115	0	0	0	
Selenium	1.043	0.0200	1	0	104	85	115	0	0	0	
Silver	0.1016	0.0100	0.1	0	102	85	115	0	0	0	
Sodium	9.852	1.00	10	0	98.5	85	115	0	0	0	
Thallium	1.02	0.0200	1	0.00522	101	85	115	0	0	0	
Vanadium	1.032	0.0100	1	0	103	85	115	0	0	0	
Zinc	1.036	0.0200	1	0	104	85	115	0	0	0	

Sample ID: 0812G73-006AMS	SampleType: MS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139622
Client ID: KIF-ERM 4.0	Batch ID: 108148	TestNo: SW6010B		Analysis Date: 12/24/2008	SeqNo: 2861246

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10.27	0.200	10	0.3378	99.3	75	125	0	0	0	
Antimony	1.02	0.0200	1	0	102	75	125	0	0	0	
Arsenic	1.038	0.0500	1	0	104	75	125	0	0	0	
Barium	1.031	0.0200	1	0.03038	100	75	125	0	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit		E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_T

Sample ID: 0812G73-006AMS		SampType: MS		TestCode: 6010B_TAL_		Units: mg/L		Prep Date: 12/24/2008		RunNo: 139622			
Client ID: KIF-ERM 4.0		Batch ID: 108148		TestNo: SW6010B		Analysis Date: 12/24/2008						SeqNo: 2861245	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Beryllium	1.018	0.0100	1	0	102	75	125	0	0	0			
Cadmium	1.022	0.00500	1	0	102	75	125	0	0	0			
Calcium	17.16	0.100	10	7.813	93.5	75	125	0	0	0			
Chromium	1.012	0.0100	1	0	101	75	125	0	0	0			
Cobalt	1.015	0.0200	1	0	102	75	125	0	0	0			
Copper	0.9997	0.0100	1	0	100	75	125	0	0	0			
Iron	10.4	0.100	10	0.262	101	75	125	0	0	0			
Lead	1.012	0.0100	1	0	101	75	125	0	0	0			
Magnesium	11.79	0.100	10	1.777	100	75	125	0	0	0			
Manganese	1.131	0.0150	1	0.1222	101	75	125	0	0	0			
Nickel	1.01	0.0200	1	0	101	75	125	0	0	0			
Potassium	11.73	0.500	10	1.354	104	75	125	0	0	0			
Selenium	1.027	0.0200	1	0	103	75	125	0	0	0			
Silver	0.09982	0.0100	0.1	0	99.8	75	125	0	0	0			
Sodium	11.99	1.00	10	2.528	94.7	75	125	0	0	0			
Thallium	0.9916	0.0200	1	0.004134	98.7	75	125	0	0	0			
Vanadium	1.011	0.0100	1	0	101	75	125	0	0	0			
Zinc	1.018	0.0200	1	0	102	75	125	0	0	0			

Sample ID: 0812G73-006AMSD		SampType: MSD		TestCode: 6010B_TAL_		Units: mg/L		Prep Date: 12/24/2008		RunNo: 139622	
Client ID: KIF-ERM 4.0		Batch ID: 108148		TestNo: SW6010B				Analysis Date: 12/24/2008		SeqNo: 2861247	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	10.34	0.200	10	0.3378	100	75	125	10.27	0.721	20	20
Antimony	1.03	0.0200	1	0	103	75	125	1.02	1.03	20	20
Arsenic	1.054	0.0500	1	0	105	75	125	1.038	1.50	20	20
Barium	1.036	0.0200	1	0.03038	101	75	125	1.031	0.526	20	20
Beryllium	1.023	0.0100	1	0	102	75	125	1.018	0.512	20	20
Cadmium	1.031	0.00500	1	0	103	75	125	1.022	0.895	20	20

Qualifiers: < Less than Result value
 BRL Below Reporting Limit
 J Estimated value detected below Reporting Limit
 Rpt Lim Reporting Limit

> Greater than Result value
 E Estimated value above quantitation range
 N Analyte not NELAC certified
 S Spike Recovery outside limits due to matrix

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 R RPD outside limits due to matrix

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_T

Sample ID: 0812G73-006AMSD		SampType: MSD		TestCode: 6010B_TAL_		Units: mg/L		Prep Date: 12/24/2008		RunNo: 139622	
Client ID: KIF-ERM 4.0		Batch ID: 108148		TestNo: SW6010B				Analysis Date: 12/24/2008		SeqNo: 2861247	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	17.57	0.100	10	7.813	97.5	75	125	17.16	2.31	20	
Chromium	1.018	0.0100	1	0	102	75	125	1.012	0.574	20	
Cobalt	1.023	0.0200	1	0	102	75	125	1.015	0.764	20	
Copper	1.01	0.0100	1	0	101	75	125	0.9997	1.01	20	
Iron	10.5	0.100	10	0.262	102	75	125	10.4	0.990	20	
Lead	1.018	0.0100	1	0	102	75	125	1.012	0.586	20	
Magnesium	11.95	0.100	10	1.777	102	75	125	11.79	1.39	20	
Manganese	1.11	0.0150	1	0.1222	98.7	75	125	1.131	1.92	20	
Nickel	1.019	0.0200	1	0	102	75	125	1.01	0.946	20	
Potassium	11.86	0.500	10	1.354	105	75	125	11.73	1.12	20	
Selenium	1.035	0.0200	1	0	103	75	125	1.027	0.800	20	
Silver	0.1003	0.0100	0.1	0	100	75	125	0.09982	0.502	20	
Sodium	12.19	1.00	10	2.528	96.7	75	125	11.99	1.66	20	
Thallium	1.006	0.0200	1	0.004134	100	75	125	0.9916	1.43	20	
Vanadium	1.016	0.0100	1	0	102	75	125	1.011	0.558	20	
Zinc	1.023	0.0200	1	0	102	75	125	1.018	0.564	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	Below Reporting Limit		E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit		N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit		S	Spike Recovery outside limits due to matrix		

ANALYTICAL QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.
Work Order: 0812G73
Project: TVA Kingston

TestCode: 7470A_W_D

Sample ID: MB-108150	SampType: MBLK	TestCode: 7470A_W_D	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139843
Client ID:	Batch ID: 108150	TestNo: SW7470A		Analysis Date: 12/24/2008	SeqNo: 2861741
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	BRL	0.000200	0	0	0 0 0 0

Sample ID: LCS-108150	SampType: LCS	TestCode: 7470A_W_D	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139843
Client ID:	Batch ID: 108150	TestNo: SW7470A		Analysis Date: 12/24/2008	SeqNo: 2861742
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.004924	0.000200	0.005	0	98.5 85 115 0 0

Sample ID: 0812G73-011BMS	SampType: MS	TestCode: 7470A_W_D	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139843
Client ID: KIF-CRM 2.0	Batch ID: 108150	TestNo: SW7470A		Analysis Date: 12/24/2008	SeqNo: 2861746
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.004717	0.000200	0.005	0	94.3 70 130 0 0

Sample ID: 0812G73-011BMSD	SampType: MSD	TestCode: 7470A_W_D	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139843
Client ID: KIF-CRM 2.0	Batch ID: 108150	TestNo: SW7470A		Analysis Date: 12/24/2008	SeqNo: 2861747
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.004823	0.000200	0.005	0	96.5 70 130 0.004717 2.22 20

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 7470A_W_T

Sample ID: MB-108151	SampType: MBLK	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139644						
Client ID:	Batch ID: 108151	TestNo: SW7470A		Analysis Date: 12/24/2008	SeqNo: 2861782						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	BRL	0.000200	0	0	0	0	0	0	0	0	

Sample ID: LCS-108151	SampType: LCS	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139644						
Client ID:	Batch ID: 108151	TestNo: SW7470A		Analysis Date: 12/24/2008	SeqNo: 2861783						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004777	0.000200	0.005	0	95.5	85	115	0	0	0	

Sample ID: 0812G73-006AMS	SampType: MS	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139644						
Client ID: KIF-ERM 4.0	Batch ID: 108151	TestNo: SW7470A		Analysis Date: 12/24/2008	SeqNo: 2861785						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004774	0.000200	0.005	0	95.5	70	130	0	0	0	

Sample ID: 0812G73-006AMSD	SampType: MSD	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 12/24/2008	RunNo: 139644						
Client ID: KIF-ERM 4.0	Batch ID: 108151	TestNo: SW7470A		Analysis Date: 12/24/2008	SeqNo: 2861788						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004702	0.000200	0.005	0	94	70	130	0.004774	1.51	20	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471A_S

Sample ID: MB-108154	SampType: MBLK	TestCode: 7471A_S	Units: mg/Kg	Prep Date: 12/24/2008	RunNo: 139620						
Client ID:	Batch ID: 108154	TestNo: SW7471A		Analysis Date: 12/24/2008	SeqNo: 2861176						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	BRL	0.100	0	0	0	0	0	0	0	0	

Sample ID: LCS-108154	SampType: LCS	TestCode: 7471A_S	Units: mg/Kg	Prep Date: 12/24/2008	RunNo: 139620						
Client ID:	Batch ID: 108154	TestNo: SW7471A		Analysis Date: 12/24/2008	SeqNo: 2861177						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.3921	0.100	0.4	0	98	80	120	0	0	0	

Sample ID: 0812G39-003CMS	SampType: MS	TestCode: 7471A_S	Units: mg/Kg-dry	Prep Date: 12/24/2008	RunNo: 139620						
Client ID:	Batch ID: 108154	TestNo: SW7471A		Analysis Date: 12/24/2008	SeqNo: 2861181						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.5018	0.123	0.4918	0.03689	94.5	70	130	0	0	0	

Sample ID: 0812G39-003CMSD	SampType: MSD	TestCode: 7471A_S	Units: mg/Kg-dry	Prep Date: 12/24/2008	RunNo: 139620						
Client ID:	Batch ID: 108154	TestNo: SW7471A		Analysis Date: 12/24/2008	SeqNo: 2861184						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.4971	0.123	0.4938	0.03689	93.2	70	130	0.5018	0.925	30	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.
Work Order: 0812G73
Project: TVA Kingston

TestCode: BTEX_S-MS

Sample ID: MB-108171	SampType: MBLK	TestCode: BTEX_S-MS	Units: ug/Kg	Prep Date: 12/24/2008	RunNo: 139632						
Client ID:	Batch ID: 108171	TestNo: SW8260B		Analysis Date: 12/24/2008	SeqNo: 2861310						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
m,p-Xylene	BRL	1.0									
o-Xylene	BRL	1.0									
Toluene	BRL	1.0									
Surr: 4-Bromofluorobenzene	46.26	0	50	0	92.5	56	145	0	0		

Sample ID: LCS-108171	SampType: LCS	TestCode: BTEX_S-MS	Units: ug/Kg	Prep Date: 12/24/2008	RunNo: 139632						
Client ID:	Batch ID: 108171	TestNo: SW8260B		Analysis Date: 12/24/2008	SeqNo: 2861381						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	57.57	1.0	50	0	115	60.4	136	0	0		
Ethylbenzene	57.07	1.0	50	0	114	66.3	139	0	0		
m,p-Xylene	112.9	1.0	100	0	113	63.8	139	0	0		
o-Xylene	57.31	1.0	50	0	115	63.8	139	0	0		
Toluene	56.73	1.0	50	0	113	60.9	138	0	0		
Surr: 4-Bromofluorobenzene	49.16	0	50	0	98.3	56	145	0	0		

Sample ID: 0812F89-001AMS	SampType: MS	TestCode: BTEX_S-MS	Units: ug/Kg-dry	Prep Date: 12/24/2008	RunNo: 139688						
Client ID:	Batch ID: 108171	TestNo: SW8260B		Analysis Date: 12/24/2008	SeqNo: 2862830						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	78	1.3	63.99	0	122	62.1	134	0	0		
Ethylbenzene	75.19	1.3	63.99	0	118	60.8	141	0	0		
m,p-Xylene	147.4	1.3	128	0	115	56.2	144	0	0		
o-Xylene	74.73	1.3	63.99	0	117	62.4	138	0	0		
Toluene	78	1.3	63.99	0	122	60.2	136	0	0		
Surr: 4-Bromofluorobenzene	63.38	0	63.99	0	99	56	145	0	0		

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

ANALYTICAL QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812G73
 Project: TVA Kingston

TestCode: BTEX_S-MS

Sample ID: 0812F89-001A		MSD	SampType: MSD		TestCode: BTEX_S-MS		Units: ug/Kg-dry	Prep Date: 12/24/2008		RunNo: 139688	
Client ID:		Batch ID: 108171			TestNo: SW8260B		Analysis Date: 12/24/2008		SeqNo: 2862832		
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	71.3	1.3	63.99	0	111	62.1	134	78	8.98	20	
Ethylbenzene	67.34	1.3	63.99	0	105	60.8	141	75.19	11.0	20	
m,p-Xylene	134.4	1.3	128	0	105	56.2	144	147.4	9.24	20	
o-Xylene	68.33	1.3	63.99	0	107	62.4	138	74.73	8.95	20	
Toluene	70.38	1.3	63.99	0	110	60.2	136	78	10.3	20	
Surr: 4-Bromofluorobenzene	63.35	0	63.99	0	99	56	145	63.38	0	0	

Qualifiers:	<	Less than Result value	>	Greater than Result value	B	Analyte detected in the associated Method Blank
BRL		Below Reporting Limit	E	Estimated value above quantitation range	H	Holding times for preparation or analysis exceeded
J		Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim		Reporting Limit	S	Spike Recovery outside limits due to matrix		