

Analytical Environmental Services, Inc.

Date: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-001

Client Sample ID: 081228-KFPRW-01
Collection Date: 12/28/2008 9:00:00 AM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	BRL		SW1311/7470A (SW7470) 0.000288	0.00400	mg/L	108322	1	Analyst: MAW 12/31/2008 7:59:37 PM
ICP METALS, TCLP								
Arsenic	BRL		SW1311/6010B (SW3010A) 0.0467	0.250	mg/L	108325	1	Analyst: TAA 12/31/2008 4:20:24 PM
Barium	0.801		0.00455	0.500	mg/L	108325	1	12/31/2008 4:20:24 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 4:20:24 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 4:20:24 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 4:20:24 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 4:20:24 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 4:20:24 PM
METALS, TOTAL								
Aluminum	11000		SW6010B (SW3050B) 5.25	59.9	mg/Kg-dry	108311	1	Analyst: TAA 12/31/2008 1:22:00 PM
Antimony	1.06	J	0.228	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Arsenic	54.2		0.180	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Barium	188		0.180	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Beryllium	0.553	J	0.0168	3.00	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Cadmium	0.737	J	0.0396	3.00	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Calcium	2190		23.5	59.9	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Chromium	18.2		0.0791	3.00	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Cobalt	8.58		0.0216	3.00	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Copper	34.5		0.0503	3.00	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Iron	11800		15.2	599	mg/Kg-dry	108311	10	12/31/2008 2:43:28 PM
Lead	15.3		0.120	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Magnesium	713		1.40	59.9	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Manganese	48.3		0.216	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Nickel	19.3		0.0300	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Potassium	1770		1.31	120	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Selenium	6.36		0.480	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Silver	BRL		0.0168	3.00	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Sodium	174		5.19	120	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Thallium	BRL		0.216	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Vanadium	44.6		0.0288	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
Zinc	24.3		0.767	5.99	mg/Kg-dry	108311	1	12/31/2008 1:22:00 PM
TOTAL MERCURY								
Mercury	0.0563	J	SW7471A (SW7471) 0.00443	0.127	mg/Kg-dry	108309	1	Analyst: MAW 12/31/2008 4:18:48 PM
VOLATILE ORGANICS								
Benzene	BRL		SW8260B (SW5035) 0.16	1.2	ug/Kg-dry	108323	1	Analyst: JE 12/31/2008 9:50:00 AM

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-001

Client Sample ID: 081228-KFPRW-01
Collection Date: 12/28/2008 9:00:00 AM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: JE
Toluene	BRL		0.15	1.2	ug/Kg-dry	108323	1	12/31/2008 9:50:00 AM
Ethylbenzene	BRL		0.20	1.2	ug/Kg-dry	108323	1	12/31/2008 9:50:00 AM
m,p-Xylene	1.6		0.42	1.2	ug/Kg-dry	108323	1	12/31/2008 9:50:00 AM
o-Xylene	BRL		0.45	1.2	ug/Kg-dry	108323	1	12/31/2008 9:50:00 AM
Surr: 4-Bromofluorobenzene	63.1		0	56-145	%REC	108323	1	12/31/2008 9:50:00 AM
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	22.2		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-002

Client Sample ID: 081228-SPRRW-02
Collection Date: 12/28/2008 9:56:00 AM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	0.00234	J	SW1311/7470A 0.000288	(SW7470) 0.00400	mg/L	108322	1	Analyst: MAW 12/31/2008 8:01:34 PM
ICP METALS, TCLP								
Arsenic	0.0862	J	SW1311/6010B 0.0467	(SW3010A) 0.250	mg/L	108325	1	Analyst: TAA 12/31/2008 4:24:31 PM
Barium	1.06		0.00455	0.500	mg/L	108325	1	12/31/2008 4:24:31 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 4:24:31 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 4:24:31 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 4:24:31 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 4:24:31 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 4:24:31 PM
METALS, TOTAL								
Aluminum	18600		SW6010B 5.61	(SW3050B) 64.0	mg/Kg-dry	108311	1	Analyst: TAA 12/31/2008 1:25:08 PM
Antimony	1.63	J	0.243	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Arsenic	81.3		0.192	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Barium	248		0.192	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Beryllium	0.782	J	0.0179	3.20	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Cadmium	1.23	J	0.0422	3.20	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Calcium	3070		25.1	64.0	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Chromium	30.4		0.0845	3.20	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Cobalt	11.4		0.0230	3.20	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Copper	49.2		0.0537	3.20	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Iron	13900		16.3	640	mg/Kg-dry	108311	10	12/31/2008 2:47:34 PM
Lead	23.2		0.128	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Magnesium	1210		1.50	64.0	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Manganese	56.8		0.230	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Nickel	25.3		0.0320	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Potassium	3050		1.39	128	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Selenium	6.37	J	0.512	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Silver	BRL		0.0179	3.20	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Sodium	298		5.54	128	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Thallium	BRL		0.230	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Vanadium	71.0		0.0307	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
Zinc	42.7		0.819	6.40	mg/Kg-dry	108311	1	12/31/2008 1:25:08 PM
TOTAL MERCURY								
Mercury	0.0973	J	SW7471A 0.00472	(SW7471) 0.135	mg/Kg-dry	108309	1	Analyst: MAW 12/31/2008 4:21:22 PM
VOLATILE ORGANICS								
Benzene	BRL		SW8260B 0.18	(SW5035) 1.3	ug/Kg-dry	108323	1	Analyst: NWH 12/30/2008 10:55:00 P

Qualifiers: * Value exceeds Maximum Contaminant Level
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Rpt Lim Reporting Limit

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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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-002

Client Sample ID: 081228-SPRRW-02
Collection Date: 12/28/2008 9:56:00 AM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.17	1.3	ug/Kg-dry	108323	1	12/30/2008 10:55:00 P
Ethylbenzene	BRL		0.22	1.3	ug/Kg-dry	108323	1	12/30/2008 10:55:00 P
m,p-Xylene	BRL		0.46	1.3	ug/Kg-dry	108323	1	12/30/2008 10:55:00 P
o-Xylene	BRL		0.49	1.3	ug/Kg-dry	108323	1	12/30/2008 10:55:00 P
Surr: 4-Bromofluorobenzene	81.7		0	56-145	%REC	108323	1	12/30/2008 10:55:00 P
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	26.1		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-003

Client Sample ID: 081228-SPCRW-03
Collection Date: 12/28/2008 10:42:00 AM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	BRL		SW1311/7470A 0.000288	(SW7470) 0.00400	mg/L	108322	1	Analyst: MAW 12/31/2008 8:03:30 PM
ICP METALS, TCLP								
Arsenic	0.0984	J	SW1311/6010B 0.0467	(SW3010A) 0.250	mg/L	108325	1	Analyst: TAA 12/31/2008 4:28:38 PM
Barium	0.747		0.00455	0.500	mg/L	108325	1	12/31/2008 4:28:38 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 4:28:38 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 4:28:38 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 4:28:38 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 4:28:38 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 4:28:38 PM
METALS, TOTAL								
Aluminum	14900		SW6010B 5.91	(SW3050B) 67.5	mg/Kg-dry	108311	1	Analyst: TAA 12/31/2008 1:29:12 PM
Antimony	1.38	J	0.257	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Arsenic	69.8		0.203	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Barium	208		0.203	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Beryllium	1.04	J	0.0189	3.38	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Cadmium	1.06	J	0.0446	3.38	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Calcium	2570		26.5	67.5	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Chromium	27.4		0.0891	3.38	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Cobalt	11.7		0.0243	3.38	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Copper	58.5		0.0567	3.38	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Iron	9590		17.1	675	mg/Kg-dry	108311	10	12/31/2008 2:51:41 PM
Lead	56.9		0.135	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Magnesium	979		1.58	67.5	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Manganese	45.7		0.243	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Nickel	27.0		0.0338	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Potassium	2250		1.47	135	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Selenium	7.15		0.540	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Silver	BRL		0.0189	3.38	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Sodium	224		5.85	135	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Thallium	BRL		0.243	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Vanadium	72.9		0.0324	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
Zinc	36.9		0.864	6.75	mg/Kg-dry	108311	1	12/31/2008 1:29:12 PM
TOTAL MERCURY								
Mercury	0.0664	J	SW7471A 0.00488	(SW7471) 0.140	mg/Kg-dry	108309	1	Analyst: MAW 12/31/2008 4:23:56 PM
VOLATILE ORGANICS								
Benzene	BRL		SW8260B 0.17	(SW5035) 1.2	ug/Kg-dry	108323	1	Analyst: NWH 12/30/2008 11:20:00 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

Analytical Environmental Services, Inc.

Date: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-003

Client Sample ID: 081228-SPCRW-03
Collection Date: 12/28/2008 10:42:00 AM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)		Analyst: NWH		
Toluene	BRL		0.16	1.2	ug/Kg-dry	108323	1	12/30/2008 11:20:00 P
Ethylbenzene	BRL		0.21	1.2	ug/Kg-dry	108323	1	12/30/2008 11:20:00 P
m,p-Xylene	BRL		0.45	1.2	ug/Kg-dry	108323	1	12/30/2008 11:20:00 P
o-Xylene	BRL		0.47	1.2	ug/Kg-dry	108323	1	12/30/2008 11:20:00 P
Surr: 4-Bromofluorobenzene	96.6		0	56-145	%REC	108323	1	12/30/2008 11:20:00 P
PERCENT MOISTURE			D2216			Analyst: LW		
Percent Moisture	29.9		0	0	wt%	1	12/31/2008 10:00:00 A	

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-004

Client Sample ID: 081228-EERBS-SS04
Collection Date: 12/28/2008 12:18:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
			SW1311/7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.000288	0.00400	mg/L	108322	1	12/31/2008 8:05:26 PM
ICP METALS, TCLP								
			SW1311/6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0467	0.250	mg/L	108325	1	12/31/2008 4:32:45 PM
Barium	0.303	J	0.00455	0.500	mg/L	108325	1	12/31/2008 4:32:45 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 4:32:45 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 4:32:45 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 4:32:45 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 4:32:45 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 4:32:45 PM
METALS, TOTAL								
			SW6010B	(SW3050B)				Analyst: TAA
Aluminum	13100		5.46	62.3	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Antimony	0.461	J	0.237	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Arsenic	1.34	J	0.187	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Barium	76.5		0.187	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Beryllium	0.497	J	0.0174	3.12	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Cadmium	BRL		0.0411	3.12	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Calcium	1510		24.4	62.3	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Chromium	21.0		0.0822	3.12	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Cobalt	8.49		0.0224	3.12	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Copper	12.8		0.0523	3.12	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Iron	19100		15.8	623	mg/Kg-dry	108311	10	12/31/2008 2:55:47 PM
Lead	10.1		0.125	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Magnesium	2530		1.46	62.3	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Manganese	268		0.224	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Nickel	23.5		0.0312	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Potassium	1840		1.36	125	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Selenium	2.12	J	0.498	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Silver	BRL		0.0174	3.12	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Sodium	52.2	J	5.40	125	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Thallium	BRL		0.224	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Vanadium	20.3		0.0299	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
Zinc	44.7		0.797	6.23	mg/Kg-dry	108311	1	12/31/2008 1:40:33 PM
TOTAL MERCURY								
			SW7471A	(SW7471)				Analyst: MAW
Mercury	BRL		0.00444	0.127	mg/Kg-dry	108309	1	12/31/2008 4:31:40 PM
VOLATILE ORGANICS								
			SW8260B	(SW5035)				Analyst: NWH
Benzene	BRL		0.13	0.92	ug/Kg-dry	108323	1	12/30/2008 11:46:00 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

Analytical Environmental Services, Inc.

Date: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-004

Client Sample ID: 081228-EERBS-SS04
Collection Date: 12/28/2008 12:18:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.12	0.92	ug/Kg-dry	108323	1	12/30/2008 11:46:00 P
Ethylbenzene	BRL		0.16	0.92	ug/Kg-dry	108323	1	12/30/2008 11:46:00 P
m,p-Xylene	BRL		0.33	0.92	ug/Kg-dry	108323	1	12/30/2008 11:46:00 P
o-Xylene	BRL		0.35	0.92	ug/Kg-dry	108323	1	12/30/2008 11:46:00 P
Surr: 4-Bromofluorobenzene	95.8		0	56-145	%REC	108323	1	12/30/2008 11:46:00 P
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	22.5		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-005

Client Sample ID: 081228-ERPL-WS01
Collection Date: 12/28/2008 1:10:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	58		2	10 mg/L		108315	1	12/31/2008 10:15:53 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.99		0.0110	0.100 mg/L		108312	1	12/31/2008 10:18:43 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	0.152	J	0.0230	0.200 mg/L		108312	1	12/31/2008 9:54:57 AM
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 9:54:57 AM
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 9:54:57 AM
Barium	0.0171	J	0.0016	0.0200 mg/L		108312	1	12/31/2008 9:54:57 AM
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 9:54:57 AM
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 9:54:57 AM
Calcium	6.83		0.0110	0.100 mg/L		108312	1	12/31/2008 9:54:57 AM
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 9:54:57 AM
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 9:54:57 AM
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 9:54:57 AM
Iron	0.155		0.0360	0.100 mg/L		108312	1	12/31/2008 9:54:57 AM
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 9:54:57 AM
Magnesium	2.20		0.0190	0.100 mg/L		108312	1	12/31/2008 9:54:57 AM
Manganese	0.0155		0.0019	0.0150 mg/L		108312	1	12/31/2008 9:54:57 AM
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 9:54:57 AM
Potassium	0.993		0.0300	0.500 mg/L		108312	1	12/31/2008 9:54:57 AM
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 9:54:57 AM
Silver	0.0004	J	0.0003	0.0100 mg/L		108312	1	12/31/2008 9:54:57 AM
Sodium	1.88		0.0063	1.00 mg/L		108312	1	12/31/2008 9:54:57 AM
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 9:54:57 AM
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 9:54:57 AM
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 9:54:57 AM
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	5.84		0.0230	0.200 mg/L		108314	1	12/31/2008 4:08:06 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:08:06 PM
Arsenic	0.0063	J	0.0031	0.0500 mg/L		108314	1	12/31/2008 4:08:06 PM
Barium	0.0389		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:08:06 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:08:06 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:08:06 PM
Calcium	8.55		0.0110	0.100 mg/L		108314	1	12/31/2008 4:08:06 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:08:06 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:08:06 PM
Copper	0.0054	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 4:08:06 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-005

Client Sample ID: 081228-ERPL-WS01
Collection Date: 12/28/2008 1:10:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	6.22		0.0360	0.100	mg/L	108314	1	12/31/2008 4:08:06 PM
Lead	0.0089	J	0.0038	0.0100	mg/L	108314	1	12/31/2008 4:08:06 PM
Magnesium	3.11		0.0190	0.100	mg/L	108314	1	12/31/2008 4:08:06 PM
Manganese	0.0921		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:08:06 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:08:06 PM
Potassium	1.81		0.0300	0.500	mg/L	108314	1	12/31/2008 4:08:06 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:08:06 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:08:06 PM
Sodium	2.05		0.0063	1.00	mg/L	108314	1	12/31/2008 4:08:06 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:08:06 PM
Vanadium	0.0150		0.0016	0.0100	mg/L	108314	1	12/31/2008 4:08:06 PM
Zinc	0.0125	J	0.0035	0.0200	mg/L	108314	1	12/31/2008 4:08:06 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00004	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:07:25 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00006	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 5:46:43 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-006

Client Sample ID: 081228-ERPL-SS05
Collection Date: 12/28/2008 1:15:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	0.000456	J	0.000288	0.00400	mg/L	108322	1	12/31/2008 8:07:22 PM
ICP METALS, TCLP								
Arsenic	BRL		0.0467	0.250	mg/L	108325	1	12/31/2008 4:36:52 PM
Barium	0.188	J	0.00455	0.500	mg/L	108325	1	12/31/2008 4:36:52 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 4:36:52 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 4:36:52 PM
Lead	0.0116	J	0.0105	0.0500	mg/L	108325	1	12/31/2008 4:36:52 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 4:36:52 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 4:36:52 PM
METALS, TOTAL								
Aluminum	12500		5.44	62.1	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Antimony	1.10	J	0.236	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Arsenic	27.9		0.186	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Barium	28.2		0.186	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Beryllium	0.0646	J	0.0174	3.11	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Cadmium	0.273	J	0.0410	3.11	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Calcium	976		24.4	62.1	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Chromium	27.7		0.0820	3.11	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Cobalt	4.04		0.0224	3.11	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Copper	21.0		0.0522	3.11	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Iron	36700		15.8	621	mg/Kg-dry	108311	10	12/31/2008 2:59:55 PM
Lead	45.4		0.124	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Magnesium	458		1.45	62.1	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Manganese	228		0.224	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Nickel	11.7		0.0311	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Potassium	350		1.35	124	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Selenium	2.64	J	0.497	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Silver	BRL		0.0174	3.11	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Sodium	33.7	J	5.38	124	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Thallium	BRL		0.224	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Vanadium	81.5		0.0298	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
Zinc	26.3		0.795	6.21	mg/Kg-dry	108311	1	12/31/2008 1:44:38 PM
TOTAL MERCURY								
Mercury	0.127	J	0.00462	0.132	mg/Kg-dry	108309	1	12/31/2008 4:34:14 PM
VOLATILE ORGANICS								
Benzene	BRL		0.15	1.1	ug/Kg-dry	108323	1	12/31/2008 12:11:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-006

Client Sample ID: 081228-ERPL-SS05
Collection Date: 12/28/2008 1:15:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.14	1.1	ug/Kg-dry	108323	1	12/31/2008 12:11:00 A
Ethylbenzene	BRL		0.18	1.1	ug/Kg-dry	108323	1	12/31/2008 12:11:00 A
m,p-Xylene	BRL		0.38	1.1	ug/Kg-dry	108323	1	12/31/2008 12:11:00 A
o-Xylene	BRL		0.40	1.1	ug/Kg-dry	108323	1	12/31/2008 12:11:00 A
Surr: 4-Bromofluorobenzene	96.9		0	56-145	%REC	108323	1	12/31/2008 12:11:00 A
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	25.8		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-007

Client Sample ID: 081228-ERPR-SS06
Collection Date: 12/28/2008 2:35:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	0.000301	J	SW1311/7470A 0.000288	(SW7470) 0.00400	mg/L	108322	1	Analyst: MAW 12/31/2008 8:09:17 PM
ICP METALS, TCLP								
Arsenic	BRL		SW1311/6010B 0.0467	(SW3010A) 0.250	mg/L	108325	1	Analyst: TAA 12/31/2008 4:40:59 PM
Barium	0.327	J	0.00455	0.500	mg/L	108325	1	12/31/2008 4:40:59 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 4:40:59 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 4:40:59 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 4:40:59 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 4:40:59 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 4:40:59 PM
METALS, TOTAL								
Aluminum	14400		SW6010B 5.40	(SW3050B) 61.7	mg/Kg-dry	108311	1	Analyst: TAA 12/31/2008 1:47:48 PM
Antimony	0.567	J	0.234	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Arsenic	3.29	J	0.185	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Barium	118		0.185	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Beryllium	0.685	J	0.0173	3.08	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Cadmium	BRL		0.0407	3.08	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Calcium	2140		24.2	61.7	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Chromium	26.0		0.0814	3.08	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Cobalt	18.0		0.0222	3.08	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Copper	15.6		0.0518	3.08	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Iron	24800		15.7	617	mg/Kg-dry	108311	10	12/31/2008 3:04:02 PM
Lead	18.2		0.123	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Magnesium	2410		1.44	61.7	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Manganese	1150		0.222	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Nickel	18.8		0.0308	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Potassium	2260		1.34	123	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Selenium	3.37	J	0.493	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Silver	BRL		0.0173	3.08	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Sodium	57.9	J	5.34	123	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Thallium	BRL		0.222	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Vanadium	28.5		0.0296	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
Zinc	35.4		0.789	6.17	mg/Kg-dry	108311	1	12/31/2008 1:47:48 PM
TOTAL MERCURY								
Mercury	BRL		SW7471A 0.00452	(SW7471) 0.129	mg/Kg-dry	108309	1	Analyst: MAW 12/31/2008 4:36:48 PM
VOLATILE ORGANICS								
Benzene	BRL		SW8260B 0.14	(SW5035) 1.0	ug/Kg-dry	108323	1	Analyst: NWH 12/31/2008 12:37:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-007

Client Sample ID: 081228-ERPR-SS06
Collection Date: 12/28/2008 2:35:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.13	1.0	ug/Kg-dry	108323	1	12/31/2008 12:37:00 A
Ethylbenzene	BRL		0.17	1.0	ug/Kg-dry	108323	1	12/31/2008 12:37:00 A
m,p-Xylene	BRL		0.36	1.0	ug/Kg-dry	108323	1	12/31/2008 12:37:00 A
o-Xylene	BRL		0.38	1.0	ug/Kg-dry	108323	1	12/31/2008 12:37:00 A
Surr: 4-Bromofluorobenzene	96.7		0	56-145	%REC	108323	1	12/31/2008 12:37:00 A
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	24.7		0		0 wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-008

Client Sample ID: 081228-ERER-WS02
Collection Date: 12/28/2008 3:03:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS) (160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	161		1	5 mg/L		108315	1	12/31/2008 10:17:15 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.92		0.0110	0.100 mg/L		108312	1	12/31/2008 10:20:29 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	0.0680	J	0.0230	0.200 mg/L		108312	1	12/31/2008 9:58:40 AM
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 9:58:40 AM
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 9:58:40 AM
Barium	0.0197	J	0.0016	0.0200 mg/L		108312	1	12/31/2008 9:58:40 AM
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 9:58:40 AM
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 9:58:40 AM
Calcium	6.42		0.0110	0.100 mg/L		108312	1	12/31/2008 9:58:40 AM
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 9:58:40 AM
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 9:58:40 AM
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 9:58:40 AM
Iron	0.0827	J	0.0360	0.100 mg/L		108312	1	12/31/2008 9:58:40 AM
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 9:58:40 AM
Magnesium	1.76		0.0190	0.100 mg/L		108312	1	12/31/2008 9:58:40 AM
Manganese	0.0129	J	0.0019	0.0150 mg/L		108312	1	12/31/2008 9:58:40 AM
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 9:58:40 AM
Potassium	1.07		0.0300	0.500 mg/L		108312	1	12/31/2008 9:58:40 AM
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 9:58:40 AM
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 9:58:40 AM
Sodium	1.90		0.0063	1.00 mg/L		108312	1	12/31/2008 9:58:40 AM
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 9:58:40 AM
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 9:58:40 AM
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 9:58:40 AM
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	1.85		0.0230	0.200 mg/L		108314	1	12/31/2008 4:11:32 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:11:32 PM
Arsenic	0.0127	J	0.0031	0.0500 mg/L		108314	1	12/31/2008 4:11:32 PM
Barium	0.0468		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:11:32 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:11:32 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:11:32 PM
Calcium	9.00		0.0110	0.100 mg/L		108314	1	12/31/2008 4:11:32 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:11:32 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:11:32 PM
Copper	0.0052	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 4:11:32 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: 05-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-008

Client Sample ID: 081228-ERER-WS02
Collection Date: 12/28/2008 3:03:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	1.48		0.0360	0.100	mg/L	108314	1	12/31/2008 4:11:32 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:11:32 PM
Magnesium	2.38		0.0190	0.100	mg/L	108314	1	12/31/2008 4:11:32 PM
Manganese	0.0629		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:11:32 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:11:32 PM
Potassium	1.83		0.0300	0.500	mg/L	108314	1	12/31/2008 4:11:32 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:11:32 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:11:32 PM
Sodium	2.27		0.0063	1.00	mg/L	108314	1	12/31/2008 4:11:32 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:11:32 PM
Vanadium	0.0059	J	0.0016	0.0100	mg/L	108314	1	12/31/2008 4:11:32 PM
Zinc	0.0473		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:11:32 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00001	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:09:25 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108433	1	1/5/2009 2:01:31 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-009

Client Sample ID: 081228-ERER-SS07
Collection Date: 12/28/2008 3:07:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP			SW1311/7470A	(SW7470)				Analyst: MAW
Mercury	0.000298	J	0.000288	0.00400	mg/L	108322	1	12/31/2008 8:11:16 PM
ICP METALS, TCLP			SW1311/6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0467	0.250	mg/L	108325	1	12/31/2008 4:53:16 PM
Barium	0.319	J	0.00455	0.500	mg/L	108325	1	12/31/2008 4:53:16 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 4:53:16 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 4:53:16 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 4:53:16 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 4:53:16 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 4:53:16 PM
METALS, TOTAL			SW6010B	(SW3050B)				Analyst: TAA
Aluminum	9580		5.29	60.4	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Antimony	1.24	J	0.229	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Arsenic	19.1		0.181	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Barium	68.2		0.181	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Beryllium	0.535	J	0.0169	3.02	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Cadmium	0.141	J	0.0398	3.02	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Calcium	1030		23.7	60.4	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Chromium	54.4		0.0797	3.02	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Cobalt	33.7		0.0217	3.02	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Copper	10.9		0.0507	3.02	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Iron	28000		15.3	604	mg/Kg-dry	108311	10	12/31/2008 3:16:22 PM
Lead	71.8		0.121	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Magnesium	635		1.41	60.4	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Manganese	1410		0.217	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Nickel	11.6		0.0302	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Potassium	577		1.32	121	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Selenium	2.86	J	0.483	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Silver	BRL		0.0169	3.02	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Sodium	25.2	J	5.23	121	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Thallium	BRL		0.217	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Vanadium	41.0		0.0290	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
Zinc	31.8		0.773	6.04	mg/Kg-dry	108311	1	12/31/2008 1:51:56 PM
TOTAL MERCURY			SW7471A	(SW7471)				Analyst: MAW
Mercury	0.0280	J	0.00414	0.118	mg/Kg-dry	108309	1	12/31/2008 4:39:24 PM
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: JE
Benzene	BRL		0.14	0.98	ug/Kg-dry	108323	1	12/31/2008 10:16:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: 081228-ERER-SS07

Lab Order: 0812I49

Collection Date: 12/28/2008 3:07:00 PM

Project: TVA Kingston

Lab ID: 0812I49-009

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: JE
Toluene	BRL		0.13	0.98	ug/Kg-dry	108323	1	12/31/2008 10:16:00 A
Ethylbenzene	BRL		0.17	0.98	ug/Kg-dry	108323	1	12/31/2008 10:16:00 A
m,p-Xylene	BRL		0.35	0.98	ug/Kg-dry	108323	1	12/31/2008 10:16:00 A
o-Xylene	BRL		0.37	0.98	ug/Kg-dry	108323	1	12/31/2008 10:16:00 A
Surr: 4-Bromofluorobenzene	91.1		0	56-145	%REC	108323	1	12/31/2008 10:16:00 A
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	18.3		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-010

Client Sample ID: 081228-ERER-SS07-DUP
Collection Date: 12/28/2008 3:10:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP			SW1311/7470A	(SW7470)				Analyst: MAW
Mercury	0.000291	J	0.000288	0.00400	mg/L	108322	1	12/31/2008 8:17:13 PM
ICP METALS, TCLP			SW1311/6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0467	0.250	mg/L	108325	1	12/31/2008 4:57:25 PM
Barium	0.346	J	0.00455	0.500	mg/L	108325	1	12/31/2008 4:57:25 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 4:57:25 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 4:57:25 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 4:57:25 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 4:57:25 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 4:57:25 PM
METALS, TOTAL			SW6010B	(SW3050B)				Analyst: TAA
Aluminum	10100		5.29	60.4	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Antimony	1.87	J	0.229	6.04	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Arsenic	19.1		0.181	6.04	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Barium	174		0.181	6.04	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Beryllium	0.618	J	0.0169	3.02	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Cadmium	0.211	J	0.0398	3.02	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Calcium	1120		23.7	60.4	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Chromium	86.7		0.0797	3.02	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Cobalt	30.8		0.0217	3.02	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Copper	11.3		0.0507	3.02	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Iron	30100		15.3	604	mg/Kg-dry	108311	10	12/31/2008 3:20:30 PM
Lead	61.2		0.121	6.04	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Magnesium	688		1.41	60.4	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Manganese	4160		2.17	60.4	mg/Kg-dry	108311	10	12/31/2008 3:20:30 PM
Nickel	12.9		0.0302	6.04	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Potassium	534		1.32	121	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Selenium	4.29	J	0.483	6.04	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Silver	0.375	J	0.0169	3.02	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Sodium	22.5	J	5.23	121	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Thallium	BRL		2.17	60.4	mg/Kg-dry	108311	10	12/31/2008 3:20:30 PM
Vanadium	43.0		0.0290	6.04	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
Zinc	35.6		0.773	6.04	mg/Kg-dry	108311	1	12/31/2008 1:56:03 PM
TOTAL MERCURY			SW7471A	(SW7471)				Analyst: MAW
Mercury	0.0293	J	0.00444	0.127	mg/Kg-dry	108309	1	12/31/2008 4:41:58 PM
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Benzene	BRL		0.12	0.88	ug/Kg-dry	108323	1	12/31/2008 1:28:00 AM

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: 081228-ERER-SS07-DUP

Lab Order: 0812149

Collection Date: 12/28/2008 3:10:00 PM

Project: TVA Kingston

Lab ID: 0812149-010

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.11	0.88	ug/Kg-dry	108323	1	12/31/2008 1:28:00 AM
Ethylbenzene	BRL		0.15	0.88	ug/Kg-dry	108323	1	12/31/2008 1:28:00 AM
m,p-Xylene	BRL		0.32	0.88	ug/Kg-dry	108323	1	12/31/2008 1:28:00 AM
o-Xylene	BRL		0.34	0.88	ug/Kg-dry	108323	1	12/31/2008 1:28:00 AM
Surr: 4-Bromofluorobenzene	98.0		0	56-145	%REC	108323	1	12/31/2008 1:28:00 AM
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	22.0		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-011

Client Sample ID: 081228-ERER-WS02-DUP
Collection Date: 12/28/2008 3:10:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS) (160.2/SM2540D)								
Residue, Suspended (TSS)	186		E160.2 1	(E160.2) 5 mg/L		108315	1	Analyst: ML 12/31/2008 10:17:50 A
TOTAL SILICON								
Silica (as Si)	1.91		SW6010B 0.0110	(SAMP_FILT) 0.100 mg/L		108312	1	Analyst: TAA 12/31/2008 10:22:13 A
METALS, DISSOLVED								
Aluminum	0.0643	J	SW6010B 0.0230	(SAMP_FILT) 0.200 mg/L		108312	1	Analyst: BB 12/31/2008 10:06:58 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:06:58 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:06:58 A
Barium	0.0205		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:06:58 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:06:58 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:06:58 A
Calcium	6.40		0.0110	0.100 mg/L		108312	1	12/31/2008 10:06:58 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:06:58 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:06:58 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:06:58 A
Iron	0.0832	J	0.0360	0.100 mg/L		108312	1	12/31/2008 10:06:58 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:06:58 A
Magnesium	1.76		0.0190	0.100 mg/L		108312	1	12/31/2008 10:06:58 A
Manganese	0.0120	J	0.0019	0.0150 mg/L		108312	1	12/31/2008 10:06:58 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:06:58 A
Potassium	1.06		0.0300	0.500 mg/L		108312	1	12/31/2008 10:06:58 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:06:58 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 10:06:58 A
Sodium	1.90		0.0063	1.00 mg/L		108312	1	12/31/2008 10:06:58 A
Thallium	0.0047	J	0.0041	0.0200 mg/L		108312	1	12/31/2008 10:06:58 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:06:58 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:06:58 A
METALS, TOTAL								
Aluminum	1.85		SW6010B 0.0230	(SW3010A) 0.200 mg/L		108314	1	Analyst: BB 12/31/2008 4:15:00 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:15:00 PM
Arsenic	0.0106	J	0.0031	0.0500 mg/L		108314	1	12/31/2008 4:15:00 PM
Barium	0.0434		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:15:00 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:15:00 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:15:00 PM
Calcium	7.35		0.0110	0.100 mg/L		108314	1	12/31/2008 4:15:00 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:15:00 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:15:00 PM
Copper	0.0033	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 4:15:00 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: 05-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-011

Client Sample ID: 081228-ERER-WS02-DUP
Collection Date: 12/28/2008 3:10:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	1.49		0.0360	0.100	mg/L	108314	1	12/31/2008 4:15:00 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:15:00 PM
Magnesium	2.28		0.0190	0.100	mg/L	108314	1	12/31/2008 4:15:00 PM
Manganese	0.0585		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:15:00 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:15:00 PM
Potassium	1.73		0.0300	0.500	mg/L	108314	1	12/31/2008 4:15:00 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:15:00 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:15:00 PM
Sodium	2.04		0.0063	1.00	mg/L	108314	1	12/31/2008 4:15:00 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:15:00 PM
Vanadium	0.0051	J	0.0016	0.0100	mg/L	108314	1	12/31/2008 4:15:00 PM
Zinc	0.0072	J	0.0035	0.0200	mg/L	108314	1	12/31/2008 4:15:00 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00003	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:11:21 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108433	1	1/5/2009 2:09:18 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-012

Client Sample ID: 081228-ERER-SS08
Collection Date: 12/28/2008 3:53:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	0.00413		SW1311/7470A (SW7470)	0.000288	0.00400 mg/L	108322	1	Analyst: MAW 12/31/2008 7:38:14 PM
ICP METALS, TCLP								
Arsenic	BRL		SW1311/6010B (SW3010A)	0.0467	0.250 mg/L	108325	1	Analyst: TAA 12/31/2008 4:07:46 PM
Barium	0.178	J		0.00455	0.500 mg/L	108325	1	12/31/2008 4:07:46 PM
Cadmium	BRL			0.0175	0.0250 mg/L	108325	1	12/31/2008 4:07:46 PM
Chromium	BRL			0.00565	0.0500 mg/L	108325	1	12/31/2008 4:07:46 PM
Lead	BRL			0.0105	0.0500 mg/L	108325	1	12/31/2008 4:07:46 PM
Selenium	BRL			0.0357	0.100 mg/L	108325	1	12/31/2008 4:07:46 PM
Silver	BRL			0.00540	0.0250 mg/L	108325	1	12/31/2008 4:07:46 PM
METALS, TOTAL								
Aluminum	13700		SW6010B (SW3050B)	5.15	58.8 mg/Kg-dry	108311	1	Analyst: TAA 12/31/2008 1:07:13 PM
Antimony	0.664	J		0.224	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Arsenic	3.99	J		0.176	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Barium	44.3			0.176	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Beryllium	0.117	J		0.0165	2.94 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Cadmium	BRL			0.0388	2.94 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Calcium	1420			23.1	58.8 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Chromium	18.7			0.0777	2.94 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Cobalt	4.39			0.0212	2.94 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Copper	8.74			0.0494	2.94 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Iron	23100			14.9	588 mg/Kg-dry	108311	10	12/31/2008 2:31:06 PM
Lead	13.8			0.118	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Magnesium	874			1.38	58.8 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Manganese	180			0.212	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Nickel	6.68			0.0294	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Potassium	659			1.28	118 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Selenium	2.60	J		0.471	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Silver	BRL			0.0165	2.94 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Sodium	48.2	J		5.09	118 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Thallium	BRL			0.212	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Vanadium	23.2			0.0282	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
Zinc	31.1			0.753	5.88 mg/Kg-dry	108311	1	12/31/2008 1:07:13 PM
TOTAL MERCURY								
Mercury	0.0649	J	SW7471A (SW7471)	0.00451	0.129 mg/Kg-dry	108309	1	Analyst: MAW 12/31/2008 4:08:24 PM
VOLATILE ORGANICS								
Benzene	BRL		SW8260B (SW5035)	0.13	0.92 ug/Kg-dry	108323	1	Analyst: NWH 12/31/2008 1:53:00 AM

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-012

Client Sample ID: 081228-ERER-SS08
Collection Date: 12/28/2008 3:53:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.12	0.92	ug/Kg-dry	108323	1	12/31/2008 1:53:00 AM
Ethylbenzene	BRL		0.16	0.92	ug/Kg-dry	108323	1	12/31/2008 1:53:00 AM
m,p-Xylene	BRL		0.33	0.92	ug/Kg-dry	108323	1	12/31/2008 1:53:00 AM
o-Xylene	BRL		0.35	0.92	ug/Kg-dry	108323	1	12/31/2008 1:53:00 AM
Surr: 4-Bromofluorobenzene	96.4		0	56-145	%REC	108323	1	12/31/2008 1:53:00 AM
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	22.6		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-013

Client Sample ID: 081228-SGUBR-SS09
Collection Date: 12/28/2008 4:45:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	BRL		SW1311/7470A 0.000288	(SW7470) 0.00400	mg/L	108322	1	Analyst: MAW 12/31/2008 7:45:59 PM
ICP METALS, TCLP								
Arsenic	BRL		SW1311/6010B 0.0467	(SW3010A) 0.250	mg/L	108325	1	Analyst: TAA 12/31/2008 5:01:32 PM
Barium	0.288	J	0.00455	0.500	mg/L	108325	1	12/31/2008 5:01:32 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 5:01:32 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 5:01:32 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 5:01:32 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 5:01:32 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 5:01:32 PM
METALS, TOTAL								
Aluminum	16200		SW6010B 5.81	(SW3050B) 66.3	mg/Kg-dry	108311	1	Analyst: TAA 12/31/2008 2:00:12 PM
Antimony	1.06	J	0.252	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Arsenic	34.5		0.199	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Barium	47.0		0.199	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Beryllium	0.346	J	0.0186	3.32	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Cadmium	0.333	J	0.0438	3.32	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Calcium	2180		26.0	66.3	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Chromium	19.5		0.0875	3.32	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Cobalt	6.46		0.0239	3.32	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Copper	35.6		0.0557	3.32	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Iron	40700		16.8	663	mg/Kg-dry	108311	10	12/31/2008 3:24:41 PM
Lead	55.5		0.133	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Magnesium	873		1.55	66.3	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Manganese	313		0.239	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Nickel	18.8		0.0332	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Potassium	581		1.45	133	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Selenium	3.23	J	0.530	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Silver	BRL		0.0186	3.32	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Sodium	30.7	J	5.74	133	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Thallium	BRL		0.239	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Vanadium	69.3		0.0318	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
Zinc	66.4		0.849	6.63	mg/Kg-dry	108311	1	12/31/2008 2:00:12 PM
TOTAL MERCURY								
Mercury	0.212		SW7471A 0.00452	(SW7471) 0.129	mg/Kg-dry	108309	1	Analyst: MAW 12/31/2008 4:44:34 PM
VOLATILE ORGANICS								
Benzene	BRL		SW8260B 0.13	(SW5035) 0.89	ug/Kg-dry	108323	1	Analyst: NWH 12/31/2008 3:09:00 AM

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-013

Client Sample ID: 081228-SGUBR-SS09
Collection Date: 12/28/2008 4:45:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.12	0.89	ug/Kg-dry	108323	1	12/31/2008 3:09:00 AM
Ethylbenzene	BRL		0.15	0.89	ug/Kg-dry	108323	1	12/31/2008 3:09:00 AM
m,p-Xylene	BRL		0.32	0.89	ug/Kg-dry	108323	1	12/31/2008 3:09:00 AM
o-Xylene	BRL		0.34	0.89	ug/Kg-dry	108323	1	12/31/2008 3:09:00 AM
Surr: 4-Bromofluorobenzene	95.2		0	56-145	%REC	108323	1	12/31/2008 3:09:00 AM
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	25.2		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-014

Client Sample ID: 081228-SGUBR-WS03
Collection Date: 12/28/2008 4:45:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	68		1	5 mg/L		108315	1	12/31/2008 10:18:27 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	2.01		0.0110	0.100 mg/L		108312	1	12/31/2008 10:23:57 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 10:10:41 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:10:41 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:10:41 A
Barium	0.0319		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:10:41 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:10:41 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:10:41 A
Calcium	30.3		0.0110	0.100 mg/L		108312	1	12/31/2008 10:10:41 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:10:41 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:10:41 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:10:41 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 10:10:41 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:10:41 A
Magnesium	9.44		0.0190	0.100 mg/L		108312	1	12/31/2008 10:10:41 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:10:41 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:10:41 A
Potassium	1.56		0.0300	0.500 mg/L		108312	1	12/31/2008 10:10:41 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:10:41 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 10:10:41 A
Sodium	5.84		0.0063	1.00 mg/L		108312	1	12/31/2008 10:10:41 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:10:41 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:10:41 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:10:41 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	2.27		0.0230	0.200 mg/L		108314	1	12/31/2008 4:18:28 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:18:28 PM
Arsenic	0.0077	J	0.0031	0.0500 mg/L		108314	1	12/31/2008 4:18:28 PM
Barium	0.0514		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:18:28 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:18:28 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:18:28 PM
Calcium	34.2		0.0110	0.100 mg/L		108314	1	12/31/2008 4:18:28 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:18:28 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:18:28 PM
Copper	0.0028	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 4:18:28 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-014

Client Sample ID: 081228-SGUBR-WS03
Collection Date: 12/28/2008 4:45:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	2.51		0.0360	0.100	mg/L	108314	1	12/31/2008 4:18:28 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:18:28 PM
Magnesium	11.5		0.0190	0.100	mg/L	108314	1	12/31/2008 4:18:28 PM
Manganese	0.0715		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:18:28 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:18:28 PM
Potassium	2.18		0.0300	0.500	mg/L	108314	1	12/31/2008 4:18:28 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:18:28 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:18:28 PM
Sodium	6.71		0.0063	1.00	mg/L	108314	1	12/31/2008 4:18:28 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:18:28 PM
Vanadium	0.0062	J	0.0016	0.0100	mg/L	108314	1	12/31/2008 4:18:28 PM
Zinc	0.0078	J	0.0035	0.0200	mg/L	108314	1	12/31/2008 4:18:28 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00003	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:17:16 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00188		0.00001	0.00020	mg/L	108319	1	12/31/2008 5:56:33 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-015

Client Sample ID: 081228-KCPS-SS10
Collection Date: 12/28/2008 5:20:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP			SW1311/7470A	(SW7470)				Analyst: MAW
Mercury	0.00132	J	0.000288	0.00400	mg/L	108322	1	12/31/2008 7:47:56 PM
ICP METALS, TCLP			SW1311/6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0467	0.250	mg/L	108325	1	12/31/2008 5:05:40 PM
Barium	0.149	J	0.00455	0.500	mg/L	108325	1	12/31/2008 5:05:40 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 5:05:40 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 5:05:40 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 5:05:40 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 5:05:40 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 5:05:40 PM
METALS, TOTAL			SW6010B	(SW3050B)				Analyst: TAA
Aluminum	22600		6.00	68.5	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Antimony	1.11	J	0.260	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Arsenic	19.1		0.206	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Barium	24.5		0.206	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Beryllium	0.351	J	0.0192	3.43	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Cadmium	0.178	J	0.0452	3.43	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Calcium	1620		26.9	68.5	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Chromium	34.2		0.0905	3.43	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Cobalt	2.34	J	0.0247	3.43	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Copper	21.8		0.0576	3.43	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Iron	40800		17.4	685	mg/Kg-dry	108311	10	12/31/2008 3:28:46 PM
Lead	24.7		0.137	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Magnesium	1020		1.60	68.5	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Manganese	143		0.247	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Nickel	12.2		0.0343	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Potassium	840		1.49	137	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Selenium	3.86	J	0.548	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Silver	BRL		0.0192	3.43	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Sodium	29.7	J	5.94	137	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Thallium	BRL		0.247	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Vanadium	66.1		0.0329	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
Zinc	84.5		0.877	6.85	mg/Kg-dry	108311	1	12/31/2008 2:04:24 PM
TOTAL MERCURY			SW7471A	(SW7471)				Analyst: MAW
Mercury	0.160		0.00479	0.137	mg/Kg-dry	108309	1	12/31/2008 4:47:10 PM
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Benzene	BRL		0.15	1.1	ug/Kg-dry	108323	1	12/31/2008 3:35:00 AM

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: 081228-KCPS-SS10

Lab Order: 0812149

Collection Date: 12/28/2008 5:20:00 PM

Project: TVA Kingston

Lab ID: 0812149-015

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.14	1.1	ug/Kg-dry	108323	1	12/31/2008 3:35:00 AM
Ethylbenzene	BRL		0.18	1.1	ug/Kg-dry	108323	1	12/31/2008 3:35:00 AM
m,p-Xylene	BRL		0.38	1.1	ug/Kg-dry	108323	1	12/31/2008 3:35:00 AM
o-Xylene	BRL		0.41	1.1	ug/Kg-dry	108323	1	12/31/2008 3:35:00 AM
Surr: 4-Bromofluorobenzene	97.5		0	56-145	%REC	108323	1	12/31/2008 3:35:00 AM
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	27.4		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-016

Client Sample ID: 081228-KCPS-WS04
Collection Date: 12/28/2008 5:25:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	969		1	5 mg/L		108315	1	12/31/2008 10:19:24 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.97		0.0110	0.100 mg/L		108312	1	12/31/2008 10:25:43 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	0.0361	J	0.0230	0.200 mg/L		108312	1	12/31/2008 10:14:31 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:14:31 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:14:31 A
Barium	0.0276		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:14:31 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:14:31 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:14:31 A
Calcium	23.3		0.0110	0.100 mg/L		108312	1	12/31/2008 10:14:31 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:14:31 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:14:31 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:14:31 A
Iron	0.0398	J	0.0360	0.100 mg/L		108312	1	12/31/2008 10:14:31 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:14:31 A
Magnesium	6.78		0.0190	0.100 mg/L		108312	1	12/31/2008 10:14:31 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:14:31 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:14:31 A
Potassium	1.45		0.0300	0.500 mg/L		108312	1	12/31/2008 10:14:31 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:14:31 A
Silver	0.0005	J	0.0003	0.0100 mg/L		108312	1	12/31/2008 10:14:31 A
Sodium	4.68		0.0063	1.00 mg/L		108312	1	12/31/2008 10:14:31 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:14:31 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:14:31 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:14:31 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	8.20		0.0230	0.200 mg/L		108314	1	12/31/2008 4:21:59 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:21:59 PM
Arsenic	0.0480	J	0.0031	0.0500 mg/L		108314	1	12/31/2008 4:21:59 PM
Barium	0.142		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:21:59 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:21:59 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:21:59 PM
Calcium	25.1		0.0110	0.100 mg/L		108314	1	12/31/2008 4:21:59 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:21:59 PM
Cobalt	0.0022	J	0.0013	0.0200 mg/L		108314	1	12/31/2008 4:21:59 PM
Copper	0.0141		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:21:59 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-016

Client Sample ID: 081228-KCPS-WS04
Collection Date: 12/28/2008 5:25:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	3.99		0.0360	0.100 mg/L		108314	1	12/31/2008 4:21:59 PM
Lead	0.0059	J	0.0038	0.0100 mg/L		108314	1	12/31/2008 4:21:59 PM
Magnesium	7.98		0.0190	0.100 mg/L		108314	1	12/31/2008 4:21:59 PM
Manganese	0.0816		0.0019	0.0150 mg/L		108314	1	12/31/2008 4:21:59 PM
Nickel	0.0060	J	0.0035	0.0200 mg/L		108314	1	12/31/2008 4:21:59 PM
Potassium	3.59		0.0300	0.500 mg/L		108314	1	12/31/2008 4:21:59 PM
Selenium	BRL		0.0060	0.0200 mg/L		108314	1	12/31/2008 4:21:59 PM
Silver	BRL		0.0003	0.0100 mg/L		108314	1	12/31/2008 4:21:59 PM
Sodium	4.95		0.0063	1.00 mg/L		108314	1	12/31/2008 4:21:59 PM
Thallium	BRL		0.0041	0.0200 mg/L		108314	1	12/31/2008 4:21:59 PM
Vanadium	0.0261		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:21:59 PM
Zinc	0.0333		0.0035	0.0200 mg/L		108314	1	12/31/2008 4:21:59 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00007	J	0.00001	0.00020 mg/L		108369	1	1/2/2009 3:19:12 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00006	J	0.00001	0.00020 mg/L		108319	1	12/31/2008 5:58:30 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-017

Client Sample ID: 081228-KCP-SS11
Collection Date: 12/28/2008 5:57:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
			SW1311/7470A	(SW7470)				Analyst: MAW
Mercury	0.00183	J	0.000288	0.00400	mg/L	108322	1	12/31/2008 7:53:51 PM
ICP METALS, TCLP								
			SW1311/6010B	(SW3010A)				Analyst: TAA
Arsenic	BRL		0.0467	0.250	mg/L	108325	1	12/31/2008 5:09:50 PM
Barium	0.145	J	0.00455	0.500	mg/L	108325	1	12/31/2008 5:09:50 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 5:09:50 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 5:09:50 PM
Lead	0.0188	J	0.0105	0.0500	mg/L	108325	1	12/31/2008 5:09:50 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 5:09:50 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 5:09:50 PM
METALS, TOTAL								
			SW6010B	(SW3050B)				Analyst: TAA
Aluminum	8140		5.33	60.8	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Antimony	0.418	J	0.231	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Arsenic	6.07	J	0.182	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Barium	17.8		0.182	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Beryllium	0.109	J	0.0170	3.04	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Cadmium	0.0423	J	0.0401	3.04	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Calcium	647		23.8	60.8	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Chromium	11.7		0.0803	3.04	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Cobalt	2.69	J	0.0219	3.04	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Copper	10.7		0.0511	3.04	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Iron	17900		15.4	608	mg/Kg-dry	108311	10	12/31/2008 3:32:52 PM
Lead	15.3		0.122	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Magnesium	379		1.42	60.8	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Manganese	112		0.219	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Nickel	5.62	J	0.0304	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Potassium	416		1.33	122	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Selenium	2.01	J	0.486	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Silver	BRL		0.0170	3.04	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Sodium	22.2	J	5.27	122	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Thallium	BRL		0.219	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Vanadium	18.8		0.0292	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
Zinc	22.9		0.778	6.08	mg/Kg-dry	108311	1	12/31/2008 2:08:30 PM
TOTAL MERCURY								
			SW7471A	(SW7471)				Analyst: MAW
Mercury	BRL		0.00453	0.129	mg/Kg-dry	108309	1	12/31/2008 4:49:44 PM
VOLATILE ORGANICS								
			SW8260B	(SW5035)				Analyst: JE
Benzene	BRL		0.13	0.92	ug/Kg-dry	108323	1	12/31/2008 10:42:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-017

Client Sample ID: 081228-KCP-SS11
Collection Date: 12/28/2008 5:57:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: JE
Toluene	BRL		0.12	0.92	ug/Kg-dry	108323	1	12/31/2008 10:42:00 A
Ethylbenzene	BRL		0.16	0.92	ug/Kg-dry	108323	1	12/31/2008 10:42:00 A
m,p-Xylene	BRL		0.33	0.92	ug/Kg-dry	108323	1	12/31/2008 10:42:00 A
o-Xylene	BRL		0.35	0.92	ug/Kg-dry	108323	1	12/31/2008 10:42:00 A
Surr: 4-Bromofluorobenzene	92.9		0	56-145	%REC	108323	1	12/31/2008 10:42:00 A
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	23.1		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-018

Client Sample ID: 081227-DKC-SS-01
Collection Date: 12/27/2008 11:45:00 AM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	0.00266	J	0.000288	0.00400	mg/L	108322	1	12/31/2008 7:55:47 PM
ICP METALS, TCLP								
Arsenic	BRL		0.0467	0.250	mg/L	108325	1	12/31/2008 5:13:57 PM
Barium	4.71		0.00455	0.500	mg/L	108325	1	12/31/2008 5:13:57 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 5:13:57 PM
Chromium	0.0540		0.00565	0.0500	mg/L	108325	1	12/31/2008 5:13:57 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 5:13:57 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 5:13:57 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 5:13:57 PM
METALS, TOTAL								
Aluminum	28900		5.93	67.7	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Antimony	1.16	J	0.257	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Arsenic	45.8		0.203	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Barium	825		0.203	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Beryllium	1.89	J	0.0189	3.38	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Cadmium	0.800	J	0.0447	3.38	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Calcium	19500		26.5	67.7	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Chromium	38.1		0.0893	3.38	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Cobalt	18.7		0.0244	3.38	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Copper	69.4		0.0568	3.38	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Iron	14100		17.2	677	mg/Kg-dry	108311	10	12/31/2008 3:36:58 PM
Lead	24.9		0.135	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Magnesium	4300		1.58	67.7	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Manganese	67.5		0.244	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Nickel	32.3		0.0338	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Potassium	2840		1.48	135	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Selenium	6.63	J	0.541	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Silver	BRL		0.0189	3.38	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Sodium	725		5.86	135	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Thallium	BRL		2.44	67.7	mg/Kg-dry	108311	10	12/31/2008 3:36:58 PM
Vanadium	121		0.0325	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
Zinc	54.9		0.866	6.77	mg/Kg-dry	108311	1	12/31/2008 2:10:40 PM
TOTAL MERCURY								
Mercury	0.111	J	0.00502	0.143	mg/Kg-dry	108309	1	12/31/2008 4:52:18 PM
VOLATILE ORGANICS								
Benzene	BRL		0.18	1.3	ug/Kg-dry	108323	1	12/31/2008 11:07:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-018

Client Sample ID: 081227-DKC-SS-01
Collection Date: 12/27/2008 11:45:00 AM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: JE
Toluene	BRL		0.17	1.3	ug/Kg-dry	108323	1	12/31/2008 11:07:00 A
Ethylbenzene	BRL		0.22	1.3	ug/Kg-dry	108323	1	12/31/2008 11:07:00 A
m,p-Xylene	BRL		0.46	1.3	ug/Kg-dry	108323	1	12/31/2008 11:07:00 A
o-Xylene	BRL		0.49	1.3	ug/Kg-dry	108323	1	12/31/2008 11:07:00 A
Surr: 4-Bromofluorobenzene	91.4		0	56-145	%REC	108323	1	12/31/2008 11:07:00 A
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	31.0		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-019

Client Sample ID: 081227-DKCL-SS-02
Collection Date: 12/27/2008 12:30:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP								
Mercury	BRL		SW1311/7470A 0.000288	(SW7470) 0.00400	mg/L	108322	1	Analyst: MAW 12/31/2008 7:57:42 PM
ICP METALS, TCLP								
Arsenic	BRL		SW1311/6010B 0.0467	(SW3010A) 0.250	mg/L	108325	1	Analyst: TAA 12/31/2008 5:18:05 PM
Barium	0.766		0.00455	0.500	mg/L	108325	1	12/31/2008 5:18:05 PM
Cadmium	BRL		0.0175	0.0250	mg/L	108325	1	12/31/2008 5:18:05 PM
Chromium	BRL		0.00565	0.0500	mg/L	108325	1	12/31/2008 5:18:05 PM
Lead	BRL		0.0105	0.0500	mg/L	108325	1	12/31/2008 5:18:05 PM
Selenium	BRL		0.0357	0.100	mg/L	108325	1	12/31/2008 5:18:05 PM
Silver	BRL		0.00540	0.0250	mg/L	108325	1	12/31/2008 5:18:05 PM
METALS, TOTAL								
Aluminum	10500		SW6010B 5.10	(SW3050B) 58.2	mg/Kg-dry	108311	1	Analyst: TAA 12/31/2008 2:14:46 PM
Antimony	1.06	J	0.221	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Arsenic	59.9		0.175	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Barium	204		0.175	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Beryllium	0.460	J	0.0163	2.91	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Cadmium	0.765	J	0.0384	2.91	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Calcium	2710		22.8	58.2	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Chromium	20.0		0.0768	2.91	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Cobalt	8.50		0.0210	2.91	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Copper	29.9		0.0489	2.91	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Iron	19300		14.8	582	mg/Kg-dry	108311	10	12/31/2008 3:41:04 PM
Lead	20.0		0.116	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Magnesium	873		1.36	58.2	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Manganese	231		0.210	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Nickel	17.1		0.0291	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Potassium	1340		1.27	116	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Selenium	5.15	J	0.466	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Silver	BRL		0.0163	2.91	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Sodium	147		5.04	116	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Thallium	BRL		0.210	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Vanadium	45.6		0.0279	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
Zinc	28.7		0.745	5.82	mg/Kg-dry	108311	1	12/31/2008 2:14:46 PM
TOTAL MERCURY								
Mercury	0.0755	J	SW7471A 0.00428	(SW7471) 0.122	mg/Kg-dry	108309	1	Analyst: MAW 12/31/2008 4:54:52 PM
VOLATILE ORGANICS								
Benzene	BRL		SW8260B 0.16	(SW5035) 1.1	ug/Kg-dry	108323	1	Analyst: NWH 12/31/2008 4:51:00 AM

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-019

Client Sample ID: 081227-DKCL-SS-02
Collection Date: 12/27/2008 12:30:00 PM

Matrix: SEDIMENT

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5035)				Analyst: NWH
Toluene	BRL		0.15	1.1	ug/Kg-dry	108323	1	12/31/2008 4:51:00 AM
Ethylbenzene	BRL		0.19	1.1	ug/Kg-dry	108323	1	12/31/2008 4:51:00 AM
m,p-Xylene	BRL		0.40	1.1	ug/Kg-dry	108323	1	12/31/2008 4:51:00 AM
o-Xylene	BRL		0.42	1.1	ug/Kg-dry	108323	1	12/31/2008 4:51:00 AM
Surr: 4-Bromofluorobenzene	97.4		0	56-145	%REC	108323	1	12/31/2008 4:51:00 AM
PERCENT MOISTURE			D2216					Analyst: LW
Percent Moisture	21.3		0	0	wt%		1	12/31/2008 10:00:00 A

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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-020

Client Sample ID: KIF-TRM568.5
Collection Date: 12/29/2008 11:16:00 AM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	10		1	5 mg/L		108315	1	12/31/2008 10:20:00 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.81		0.0110	0.100 mg/L		108312	1	12/31/2008 10:30:58 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 10:25:09 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:25:09 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:25:09 A
Barium	0.0184	J	0.0016	0.0200 mg/L		108312	1	12/31/2008 10:25:09 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:25:09 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:25:09 A
Calcium	14.1		0.0110	0.100 mg/L		108312	1	12/31/2008 10:25:09 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:25:09 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:25:09 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:25:09 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 10:25:09 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:25:09 A
Magnesium	3.71		0.0190	0.100 mg/L		108312	1	12/31/2008 10:25:09 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:25:09 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:25:09 A
Potassium	1.62		0.0300	0.500 mg/L		108312	1	12/31/2008 10:25:09 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:25:09 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 10:25:09 A
Sodium	8.62		0.0063	1.00 mg/L		108312	1	12/31/2008 10:25:09 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:25:09 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:25:09 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:25:09 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.257		0.0230	0.200 mg/L		108314	1	12/31/2008 4:31:55 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:31:55 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 4:31:55 PM
Barium	0.0260		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:31:55 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:31:55 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:31:55 PM
Calcium	16.6		0.0110	0.100 mg/L		108314	1	12/31/2008 4:31:55 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:31:55 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:31:55 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:31:55 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-020

Client Sample ID: KIF-TRM568.5
Collection Date: 12/29/2008 11:16:00 AM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.305		0.0360	0.100	mg/L	108314	1	12/31/2008 4:31:55 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:31:55 PM
Magnesium	4.69		0.0190	0.100	mg/L	108314	1	12/31/2008 4:31:55 PM
Manganese	0.0508		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:31:55 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:31:55 PM
Potassium	2.05		0.0300	0.500	mg/L	108314	1	12/31/2008 4:31:55 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:31:55 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:31:55 PM
Sodium	10.8		0.0063	1.00	mg/L	108314	1	12/31/2008 4:31:55 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:31:55 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 4:31:55 PM
Zinc	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:31:55 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00001	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:21:08 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108319	1	12/31/2008 6:00:26 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-021

Client Sample ID: KIF-CRM0.0
Collection Date: 12/29/2008 11:40:00 AM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	46		1	5 mg/L		108315	1	12/31/2008 10:20:30 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.87		0.0110	0.100 mg/L		108312	1	12/31/2008 10:32:43 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 10:28:56 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:28:56 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:28:56 A
Barium	0.0172	J	0.0016	0.0200 mg/L		108312	1	12/31/2008 10:28:56 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:28:56 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:28:56 A
Calcium	14.2		0.0110	0.100 mg/L		108312	1	12/31/2008 10:28:56 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:28:56 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:28:56 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:28:56 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 10:28:56 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:28:56 A
Magnesium	3.72		0.0190	0.100 mg/L		108312	1	12/31/2008 10:28:56 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:28:56 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:28:56 A
Potassium	1.62		0.0300	0.500 mg/L		108312	1	12/31/2008 10:28:56 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:28:56 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 10:28:56 A
Sodium	8.63		0.0063	1.00 mg/L		108312	1	12/31/2008 10:28:56 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:28:56 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:28:56 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:28:56 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.751		0.0230	0.200 mg/L		108314	1	12/31/2008 4:35:26 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:35:26 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 4:35:26 PM
Barium	0.0311		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:35:26 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:35:26 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:35:26 PM
Calcium	16.4		0.0110	0.100 mg/L		108314	1	12/31/2008 4:35:26 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:35:26 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:35:26 PM
Copper	0.0017	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 4:35:26 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-021

Client Sample ID: KIF-CRM0.0
Collection Date: 12/29/2008 11:40:00 AM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	1.12		0.0360	0.100	mg/L	108314	1	12/31/2008 4:35:26 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:35:26 PM
Magnesium	4.71		0.0190	0.100	mg/L	108314	1	12/31/2008 4:35:26 PM
Manganese	0.159		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:35:26 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:35:26 PM
Potassium	2.10		0.0300	0.500	mg/L	108314	1	12/31/2008 4:35:26 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:35:26 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:35:26 PM
Sodium	10.5		0.0063	1.00	mg/L	108314	1	12/31/2008 4:35:26 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:35:26 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 4:35:26 PM
Zinc	0.0063	J	0.0035	0.0200	mg/L	108314	1	12/31/2008 4:35:26 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00001	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:23:04 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00005	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:02:22 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-022

Client Sample ID: KIF-CRM2.0
Collection Date: 12/29/2008 12:07:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	15		1	5 mg/L		108315	1	12/31/2008 10:21:02 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.94		0.0110	0.100 mg/L		108312	1	12/31/2008 10:34:30 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 10:32:51 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:32:51 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:32:51 A
Barium	0.0288		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:32:51 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:32:51 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:32:51 A
Calcium	24.7		0.0110	0.100 mg/L		108312	1	12/31/2008 10:32:51 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:32:51 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:32:51 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:32:51 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 10:32:51 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:32:51 A
Magnesium	7.40		0.0190	0.100 mg/L		108312	1	12/31/2008 10:32:51 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:32:51 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:32:51 A
Potassium	1.45		0.0300	0.500 mg/L		108312	1	12/31/2008 10:32:51 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:32:51 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 10:32:51 A
Sodium	5.15		0.0063	1.00 mg/L		108312	1	12/31/2008 10:32:51 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:32:51 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:32:51 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:32:51 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.516		0.0230	0.200 mg/L		108314	1	12/31/2008 4:39:49 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:39:49 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 4:39:49 PM
Barium	0.0411		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:39:49 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:39:49 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:39:49 PM
Calcium	28.6		0.0110	0.100 mg/L		108314	1	12/31/2008 4:39:49 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:39:49 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:39:49 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:39:49 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-022

Client Sample ID: KIF-CRM2.0
Collection Date: 12/29/2008 12:07:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.466		0.0360	0.100 mg/L		108314	1	12/31/2008 4:39:49 PM
Lead	BRL		0.0038	0.0100 mg/L		108314	1	12/31/2008 4:39:49 PM
Magnesium	9.21		0.0190	0.100 mg/L		108314	1	12/31/2008 4:39:49 PM
Manganese	0.0507		0.0019	0.0150 mg/L		108314	1	12/31/2008 4:39:49 PM
Nickel	BRL		0.0035	0.0200 mg/L		108314	1	12/31/2008 4:39:49 PM
Potassium	1.87		0.0300	0.500 mg/L		108314	1	12/31/2008 4:39:49 PM
Selenium	BRL		0.0060	0.0200 mg/L		108314	1	12/31/2008 4:39:49 PM
Silver	BRL		0.0003	0.0100 mg/L		108314	1	12/31/2008 4:39:49 PM
Sodium	6.08		0.0063	1.00 mg/L		108314	1	12/31/2008 4:39:49 PM
Thallium	BRL		0.0041	0.0200 mg/L		108314	1	12/31/2008 4:39:49 PM
Vanadium	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:39:49 PM
Zinc	BRL		0.0035	0.0200 mg/L		108314	1	12/31/2008 4:39:49 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00009	J	0.00001	0.00020 mg/L		108369	1	1/2/2009 3:25:00 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00006	J	0.00001	0.00020 mg/L		108319	1	12/31/2008 6:04:18 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-023

Client Sample ID: TT-CRM2.5
Collection Date: 12/29/2008 12:30:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	13		1	5 mg/L		108315	1	12/31/2008 10:21:30 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.89		0.0110	0.100 mg/L		108312	1	12/31/2008 10:36:17 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 10:37:06 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:37:06 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:37:06 A
Barium	0.0280		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:37:06 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:37:06 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:37:06 A
Calcium	27.8		0.0110	0.100 mg/L		108312	1	12/31/2008 10:37:06 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:37:06 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:37:06 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:37:06 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 10:37:06 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:37:06 A
Magnesium	8.41		0.0190	0.100 mg/L		108312	1	12/31/2008 10:37:06 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:37:06 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:37:06 A
Potassium	1.51		0.0300	0.500 mg/L		108312	1	12/31/2008 10:37:06 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:37:06 A
Silver	0.0007	J	0.0003	0.0100 mg/L		108312	1	12/31/2008 10:37:06 A
Sodium	5.67		0.0063	1.00 mg/L		108312	1	12/31/2008 10:37:06 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:37:06 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:37:06 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:37:06 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.355		0.0230	0.200 mg/L		108314	1	12/31/2008 4:43:29 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:43:29 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 4:43:29 PM
Barium	0.0384		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:43:29 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:43:29 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:43:29 PM
Calcium	31.2		0.0110	0.100 mg/L		108314	1	12/31/2008 4:43:29 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:43:29 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:43:29 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:43:29 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: TT-CRM2.5

Lab Order: 0812149

Collection Date: 12/29/2008 12:30:00 PM

Project: TVA Kingston

Matrix: SURFACE WATER

Lab ID: 0812149-023

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.328		0.0360	0.100	mg/L	108314	1	12/31/2008 4:43:29 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:43:29 PM
Magnesium	10.1		0.0190	0.100	mg/L	108314	1	12/31/2008 4:43:29 PM
Manganese	0.0495		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:43:29 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:43:29 PM
Potassium	1.86		0.0300	0.500	mg/L	108314	1	12/31/2008 4:43:29 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:43:29 PM
Silver	0.0004	J	0.0003	0.0100	mg/L	108314	1	12/31/2008 4:43:29 PM
Sodium	6.58		0.0063	1.00	mg/L	108314	1	12/31/2008 4:43:29 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:43:29 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 4:43:29 PM
Zinc	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:43:29 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00010	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:26:56 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00006	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:06:14 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-024

Client Sample ID: KIF-CRM4.0
Collection Date: 12/29/2008 12:45:00 PM
Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS) (160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	10		1	5 mg/L		108315	1	12/31/2008 10:22:12 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.96		0.0110	0.100 mg/L		108312	1	12/31/2008 10:39:26 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 10:40:54 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:40:54 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:40:54 A
Barium	0.0286		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:40:54 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:40:54 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:40:54 A
Calcium	28.5		0.0110	0.100 mg/L		108312	1	12/31/2008 10:40:54 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:40:54 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:40:54 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:40:54 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 10:40:54 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:40:54 A
Magnesium	8.61		0.0190	0.100 mg/L		108312	1	12/31/2008 10:40:54 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:40:54 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:40:54 A
Potassium	1.51		0.0300	0.500 mg/L		108312	1	12/31/2008 10:40:54 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:40:54 A
Silver	0.0003	J	0.0003	0.0100 mg/L		108312	1	12/31/2008 10:40:54 A
Sodium	5.78		0.0063	1.00 mg/L		108312	1	12/31/2008 10:40:54 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:40:54 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:40:54 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:40:54 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.355		0.0230	0.200 mg/L		108314	1	12/31/2008 4:46:59 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:46:59 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 4:46:59 PM
Barium	0.0374		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:46:59 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:46:59 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:46:59 PM
Calcium	31.7		0.0110	0.100 mg/L		108314	1	12/31/2008 4:46:59 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:46:59 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:46:59 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:46:59 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-024

Client Sample ID: KIF-CRM4.0
Collection Date: 12/29/2008 12:45:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.335		0.0360	0.100	mg/L	108314	1	12/31/2008 4:46:59 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:46:59 PM
Magnesium	10.3		0.0190	0.100	mg/L	108314	1	12/31/2008 4:46:59 PM
Manganese	0.0473		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:46:59 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:46:59 PM
Potassium	1.84		0.0300	0.500	mg/L	108314	1	12/31/2008 4:46:59 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:46:59 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:46:59 PM
Sodium	6.63		0.0063	1.00	mg/L	108314	1	12/31/2008 4:46:59 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:46:59 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 4:46:59 PM
Zinc	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:46:59 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00003	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:28:52 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00016	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:08:10 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-025

Client Sample ID: KIF-CRM5.5
Collection Date: 12/29/2008 1:00:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)								
Residue, Suspended (TSS)	9		E160.2	(E160.2)	5 mg/L	108315	1	12/31/2008 10:22:37 A
TOTAL SILICON								
Silica (as Si)	1.95		SW6010B	(SAMP_FILT)	0.100 mg/L	108312	1	12/31/2008 10:41:14 A
METALS, DISSOLVED								
Aluminum	BRL		SW6010B	(SAMP_FILT)	0.200 mg/L	108312	1	12/31/2008 10:47:50 A
Antimony	BRL		0.0063	0.0200 mg/L	108312	1	12/31/2008 10:47:50 A	
Arsenic	BRL		0.0031	0.0500 mg/L	108312	1	12/31/2008 10:47:50 A	
Barium	0.0292		0.0016	0.0200 mg/L	108312	1	12/31/2008 10:47:50 A	
Beryllium	BRL		0.0022	0.0100 mg/L	108312	1	12/31/2008 10:47:50 A	
Cadmium	BRL		0.0025	0.0050 mg/L	108312	1	12/31/2008 10:47:50 A	
Calcium	30.2		0.0110	0.100 mg/L	108312	1	12/31/2008 10:47:50 A	
Chromium	BRL		0.0075	0.0100 mg/L	108312	1	12/31/2008 10:47:50 A	
Cobalt	BRL		0.0013	0.0200 mg/L	108312	1	12/31/2008 10:47:50 A	
Copper	BRL		0.0016	0.0100 mg/L	108312	1	12/31/2008 10:47:50 A	
Iron	BRL		0.0360	0.100 mg/L	108312	1	12/31/2008 10:47:50 A	
Lead	BRL		0.0038	0.0100 mg/L	108312	1	12/31/2008 10:47:50 A	
Magnesium	9.14		0.0190	0.100 mg/L	108312	1	12/31/2008 10:47:50 A	
Manganese	BRL		0.0019	0.0150 mg/L	108312	1	12/31/2008 10:47:50 A	
Nickel	BRL		0.0035	0.0200 mg/L	108312	1	12/31/2008 10:47:50 A	
Potassium	1.56		0.0300	0.500 mg/L	108312	1	12/31/2008 10:47:50 A	
Selenium	BRL		0.0060	0.0200 mg/L	108312	1	12/31/2008 10:47:50 A	
Silver	0.0003	J	0.0003	0.0100 mg/L	108312	1	12/31/2008 10:47:50 A	
Sodium	6.14		0.0063	1.00 mg/L	108312	1	12/31/2008 10:47:50 A	
Thallium	BRL		0.0041	0.0200 mg/L	108312	1	12/31/2008 10:47:50 A	
Vanadium	BRL		0.0016	0.0100 mg/L	108312	1	12/31/2008 10:47:50 A	
Zinc	BRL		0.0035	0.0200 mg/L	108312	1	12/31/2008 10:47:50 A	
METALS, TOTAL								
Aluminum	0.308		SW6010B	(SW3010A)	0.200 mg/L	108314	1	12/31/2008 4:50:29 PM
Antimony	BRL		0.0063	0.0200 mg/L	108314	1	12/31/2008 4:50:29 PM	
Arsenic	BRL		0.0031	0.0500 mg/L	108314	1	12/31/2008 4:50:29 PM	
Barium	0.0379		0.0016	0.0200 mg/L	108314	1	12/31/2008 4:50:29 PM	
Beryllium	BRL		0.0022	0.0100 mg/L	108314	1	12/31/2008 4:50:29 PM	
Cadmium	BRL		0.0025	0.0050 mg/L	108314	1	12/31/2008 4:50:29 PM	
Calcium	34.1		0.0110	0.100 mg/L	108314	1	12/31/2008 4:50:29 PM	
Chromium	BRL		0.0075	0.0100 mg/L	108314	1	12/31/2008 4:50:29 PM	
Cobalt	BRL		0.0013	0.0200 mg/L	108314	1	12/31/2008 4:50:29 PM	
Copper	BRL		0.0016	0.0100 mg/L	108314	1	12/31/2008 4:50:29 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-025

Client Sample ID: KIF-CRM5.5
Collection Date: 12/29/2008 1:00:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.294		0.0360	0.100	mg/L	108314	1	12/31/2008 4:50:29 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:50:29 PM
Magnesium	11.1		0.0190	0.100	mg/L	108314	1	12/31/2008 4:50:29 PM
Manganese	0.0518		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:50:29 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:50:29 PM
Potassium	1.90		0.0300	0.500	mg/L	108314	1	12/31/2008 4:50:29 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:50:29 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:50:29 PM
Sodium	7.08		0.0063	1.00	mg/L	108314	1	12/31/2008 4:50:29 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:50:29 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 4:50:29 PM
Zinc	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:50:29 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00023		0.00001	0.00020	mg/L	108369	1	1/2/2009 3:30:48 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00003	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:10:07 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-026

Client Sample ID: KIF-ERM0.1
Collection Date: 12/29/2008 1:15:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	9		1	5 mg/L		108315	1	12/31/2008 10:23:07 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.94		0.0110	0.100 mg/L		108312	1	12/31/2008 10:43:01 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	0.0265	J	0.0230	0.200 mg/L		108312	1	12/31/2008 10:51:34 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:51:34 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:51:34 A
Barium	0.0240		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:51:34 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:51:34 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:51:34 A
Calcium	13.3		0.0110	0.100 mg/L		108312	1	12/31/2008 10:51:34 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:51:34 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:51:34 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:51:34 A
Iron	0.0376	J	0.0360	0.100 mg/L		108312	1	12/31/2008 10:51:34 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:51:34 A
Magnesium	3.92		0.0190	0.100 mg/L		108312	1	12/31/2008 10:51:34 A
Manganese	0.0126	J	0.0019	0.0150 mg/L		108312	1	12/31/2008 10:51:34 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:51:34 A
Potassium	1.18		0.0300	0.500 mg/L		108312	1	12/31/2008 10:51:34 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:51:34 A
Silver	0.0004	J	0.0003	0.0100 mg/L		108312	1	12/31/2008 10:51:34 A
Sodium	3.18		0.0063	1.00 mg/L		108312	1	12/31/2008 10:51:34 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:51:34 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:51:34 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:51:34 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.400		0.0230	0.200 mg/L		108314	1	12/31/2008 4:53:59 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:53:59 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 4:53:59 PM
Barium	0.0320		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:53:59 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:53:59 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:53:59 PM
Calcium	14.7		0.0110	0.100 mg/L		108314	1	12/31/2008 4:53:59 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:53:59 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:53:59 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:53:59 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-026

Client Sample ID: KIF-ERM0.1
Collection Date: 12/29/2008 1:15:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.323		0.0360	0.100	mg/L	108314	1	12/31/2008 4:53:59 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:53:59 PM
Magnesium	4.63		0.0190	0.100	mg/L	108314	1	12/31/2008 4:53:59 PM
Manganese	0.0427		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:53:59 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:53:59 PM
Potassium	1.47		0.0300	0.500	mg/L	108314	1	12/31/2008 4:53:59 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:53:59 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:53:59 PM
Sodium	3.35		0.0063	1.00	mg/L	108314	1	12/31/2008 4:53:59 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:53:59 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 4:53:59 PM
Zinc	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:53:59 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00002	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:32:44 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00001	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:12:03 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-027

Client Sample ID: KIF-ERM-1.75
Collection Date: 12/29/2008 1:30:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	13		1	5 mg/L		108315	1	12/31/2008 10:23:32 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.85		0.0110	0.100 mg/L		108312	1	12/31/2008 10:44:47 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	0.0439	J	0.0230	0.200 mg/L		108312	1	12/31/2008 10:55:14 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:55:14 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:55:14 A
Barium	0.0223		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:55:14 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:55:14 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:55:14 A
Calcium	6.12		0.0110	0.100 mg/L		108312	1	12/31/2008 10:55:14 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:55:14 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:55:14 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:55:14 A
Iron	0.0569	J	0.0360	0.100 mg/L		108312	1	12/31/2008 10:55:14 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:55:14 A
Magnesium	1.54		0.0190	0.100 mg/L		108312	1	12/31/2008 10:55:14 A
Manganese	0.0221		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:55:14 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:55:14 A
Potassium	1.03		0.0300	0.500 mg/L		108312	1	12/31/2008 10:55:14 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:55:14 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 10:55:14 A
Sodium	1.95		0.0063	1.00 mg/L		108312	1	12/31/2008 10:55:14 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:55:14 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:55:14 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:55:14 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.587		0.0230	0.200 mg/L		108314	1	12/31/2008 4:57:26 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 4:57:26 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 4:57:26 PM
Barium	0.0328		0.0016	0.0200 mg/L		108314	1	12/31/2008 4:57:26 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 4:57:26 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 4:57:26 PM
Calcium	6.83		0.0110	0.100 mg/L		108314	1	12/31/2008 4:57:26 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 4:57:26 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 4:57:26 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 4:57:26 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-027

Client Sample ID: KIF-ERM-1.75
Collection Date: 12/29/2008 1:30:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.414		0.0360	0.100	mg/L	108314	1	12/31/2008 4:57:26 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 4:57:26 PM
Magnesium	1.87		0.0190	0.100	mg/L	108314	1	12/31/2008 4:57:26 PM
Manganese	0.0408		0.0019	0.0150	mg/L	108314	1	12/31/2008 4:57:26 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:57:26 PM
Potassium	1.34		0.0300	0.500	mg/L	108314	1	12/31/2008 4:57:26 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 4:57:26 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 4:57:26 PM
Sodium	2.03		0.0063	1.00	mg/L	108314	1	12/31/2008 4:57:26 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 4:57:26 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 4:57:26 PM
Zinc	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 4:57:26 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00016	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:34:39 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108319	1	12/31/2008 6:17:55 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-028

Client Sample ID: KIF-ERM4.0
Collection Date: 12/29/2008 1:50:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS) (160.2/SM2540D)								
Residue, Suspended (TSS)	10		E160.2 1	(E160.2) 5 mg/L		108315	1	Analyst: ML 12/31/2008 10:24:03 A
TOTAL SILICON								
Silica (as Si)	2.07		SW6010B 0.0110	(SAMP_FILT) 0.100 mg/L		108312	1	Analyst: TAA 12/31/2008 10:13:21 A
METALS, DISSOLVED								
Aluminum	0.0441	J	SW6010B 0.0230	(SAMP_FILT) 0.200 mg/L		108312	1	Analyst: BB 12/31/2008 9:43:17 AM
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 9:43:17 AM
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 9:43:17 AM
Barium	0.0226		0.0016	0.0200 mg/L		108312	1	12/31/2008 9:43:17 AM
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 9:43:17 AM
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 9:43:17 AM
Calcium	6.42		0.0110	0.100 mg/L		108312	1	12/31/2008 9:43:17 AM
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 9:43:17 AM
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 9:43:17 AM
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 9:43:17 AM
Iron	0.0621	J	0.0360	0.100 mg/L		108312	1	12/31/2008 9:43:17 AM
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 9:43:17 AM
Magnesium	1.64		0.0190	0.100 mg/L		108312	1	12/31/2008 9:43:17 AM
Manganese	0.0275		0.0019	0.0150 mg/L		108312	1	12/31/2008 9:43:17 AM
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 9:43:17 AM
Potassium	1.16		0.0300	0.500 mg/L		108312	1	12/31/2008 9:43:17 AM
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 9:43:17 AM
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 9:43:17 AM
Sodium	2.02		0.0063	1.00 mg/L		108312	1	12/31/2008 9:43:17 AM
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 9:43:17 AM
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 9:43:17 AM
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 9:43:17 AM
METALS, TOTAL								
Aluminum	0.582		SW6010B 0.0230	(SW3010A) 0.200 mg/L		108314	1	Analyst: BB 12/31/2008 3:57:19 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 3:57:19 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 3:57:19 PM
Barium	0.0325		0.0016	0.0200 mg/L		108314	1	12/31/2008 3:57:19 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 3:57:19 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 3:57:19 PM
Calcium	6.92		0.0110	0.100 mg/L		108314	1	12/31/2008 3:57:19 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 3:57:19 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 3:57:19 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 3:57:19 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: KIF-ERM4.0

Lab Order: 0812149

Collection Date: 12/29/2008 1:50:00 PM

Project: TVA Kingston

Lab ID: 0812149-028

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.397		0.0360	0.100	mg/L	108314	1	12/31/2008 3:57:19 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 3:57:19 PM
Magnesium	1.92		0.0190	0.100	mg/L	108314	1	12/31/2008 3:57:19 PM
Manganese	0.0442		0.0019	0.0150	mg/L	108314	1	12/31/2008 3:57:19 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 3:57:19 PM
Potassium	1.41		0.0300	0.500	mg/L	108314	1	12/31/2008 3:57:19 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 3:57:19 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 3:57:19 PM
Sodium	2.09		0.0063	1.00	mg/L	108314	1	12/31/2008 3:57:19 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 3:57:19 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 3:57:19 PM
Zinc	0.0041	J	0.0035	0.0200	mg/L	108314	1	12/31/2008 3:57:19 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00021		0.00001	0.00020	mg/L	108369	1	1/2/2009 2:59:37 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00005	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 5:38:52 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: KIF-ERM2.0

Lab Order: 0812I49

Collection Date: 12/29/2008 2:15:00 PM

Project: TVA Kingston

Lab ID: 0812I49-029

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE, SUSPENDED (TSS) (160.2/SM2540D)								
Residue, Suspended (TSS)	22		E160.2 1	(E160.2) 5 mg/L		108315	1	Analyst: ML 12/31/2008 10:24:28 A
TOTAL SILICON								
Silica (as Si)	1.86		SW6010B 0.0110	(SAMP_FILT) 0.100 mg/L		108312	1	Analyst: TAA 12/31/2008 10:46:31 A
METALS, DISSOLVED								
Aluminum	0.0411	J	SW6010B 0.0230	(SAMP_FILT) 0.200 mg/L		108312	1	Analyst: BB 12/31/2008 10:58:54 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 10:58:54 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 10:58:54 A
Barium	0.0218		0.0016	0.0200 mg/L		108312	1	12/31/2008 10:58:54 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 10:58:54 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 10:58:54 A
Calcium	5.87		0.0110	0.100 mg/L		108312	1	12/31/2008 10:58:54 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 10:58:54 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 10:58:54 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:58:54 A
Iron	0.0598	J	0.0360	0.100 mg/L		108312	1	12/31/2008 10:58:54 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 10:58:54 A
Magnesium	1.47		0.0190	0.100 mg/L		108312	1	12/31/2008 10:58:54 A
Manganese	0.0227		0.0019	0.0150 mg/L		108312	1	12/31/2008 10:58:54 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:58:54 A
Potassium	1.02		0.0300	0.500 mg/L		108312	1	12/31/2008 10:58:54 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 10:58:54 A
Silver	0.0007	J	0.0003	0.0100 mg/L		108312	1	12/31/2008 10:58:54 A
Sodium	1.91		0.0063	1.00 mg/L		108312	1	12/31/2008 10:58:54 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 10:58:54 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 10:58:54 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 10:58:54 A
METALS, TOTAL								
Aluminum	0.995		SW6010B 0.0230	(SW3010A) 0.200 mg/L		108314	1	Analyst: BB 12/31/2008 5:00:52 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 5:00:52 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 5:00:52 PM
Barium	0.0377		0.0016	0.0200 mg/L		108314	1	12/31/2008 5:00:52 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 5:00:52 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 5:00:52 PM
Calcium	6.81		0.0110	0.100 mg/L		108314	1	12/31/2008 5:00:52 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 5:00:52 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 5:00:52 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 5:00:52 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-029

Client Sample ID: KIF-ERM2.0
Collection Date: 12/29/2008 2:15:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.643		0.0360	0.100	mg/L	108314	1	12/31/2008 5:00:52 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 5:00:52 PM
Magnesium	1.87		0.0190	0.100	mg/L	108314	1	12/31/2008 5:00:52 PM
Manganese	0.0446		0.0019	0.0150	mg/L	108314	1	12/31/2008 5:00:52 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:00:52 PM
Potassium	1.44		0.0300	0.500	mg/L	108314	1	12/31/2008 5:00:52 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 5:00:52 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 5:00:52 PM
Sodium	2.06		0.0063	1.00	mg/L	108314	1	12/31/2008 5:00:52 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 5:00:52 PM
Vanadium	0.0023	J	0.0016	0.0100	mg/L	108314	1	12/31/2008 5:00:52 PM
Zinc	0.0047	J	0.0035	0.0200	mg/L	108314	1	12/31/2008 5:00:52 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108369	1	1/2/2009 3:40:32 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00003	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:19:52 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-030

Client Sample ID: KIF-ERM2.0-DUP
Collection Date: 12/29/2008 2:15:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	17		1	5 mg/L		108315	1	12/31/2008 10:25:00 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.84		0.0110	0.100 mg/L		108312	1	12/31/2008 10:48:15 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	0.0420	J	0.0230	0.200 mg/L		108312	1	12/31/2008 11:05:35 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 11:05:35 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 11:05:35 A
Barium	0.0219		0.0016	0.0200 mg/L		108312	1	12/31/2008 11:05:35 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 11:05:35 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 11:05:35 A
Calcium	6.29		0.0110	0.100 mg/L		108312	1	12/31/2008 11:05:35 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 11:05:35 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 11:05:35 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:05:35 A
Iron	0.0583	J	0.0360	0.100 mg/L		108312	1	12/31/2008 11:05:35 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 11:05:35 A
Magnesium	1.47		0.0190	0.100 mg/L		108312	1	12/31/2008 11:05:35 A
Manganese	0.0238		0.0019	0.0150 mg/L		108312	1	12/31/2008 11:05:35 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:05:35 A
Potassium	1.03		0.0300	0.500 mg/L		108312	1	12/31/2008 11:05:35 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 11:05:35 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 11:05:35 A
Sodium	1.91		0.0063	1.00 mg/L		108312	1	12/31/2008 11:05:35 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 11:05:35 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:05:35 A
Zinc	0.0067	J	0.0035	0.0200 mg/L		108312	1	12/31/2008 11:05:35 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.998		0.0230	0.200 mg/L		108314	1	12/31/2008 5:04:18 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 5:04:18 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 5:04:18 PM
Barium	0.0375		0.0016	0.0200 mg/L		108314	1	12/31/2008 5:04:18 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 5:04:18 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 5:04:18 PM
Calcium	6.71		0.0110	0.100 mg/L		108314	1	12/31/2008 5:04:18 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 5:04:18 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 5:04:18 PM
Copper	0.0020	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 5:04:18 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-030

Client Sample ID: KIF-ERM2.0-DUP
Collection Date: 12/29/2008 2:15:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.625		0.0360	0.100	mg/L	108314	1	12/31/2008 5:04:18 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 5:04:18 PM
Magnesium	1.83		0.0190	0.100	mg/L	108314	1	12/31/2008 5:04:18 PM
Manganese	0.0437		0.0019	0.0150	mg/L	108314	1	12/31/2008 5:04:18 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:04:18 PM
Potassium	1.42		0.0300	0.500	mg/L	108314	1	12/31/2008 5:04:18 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 5:04:18 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 5:04:18 PM
Sodium	2.02		0.0063	1.00	mg/L	108314	1	12/31/2008 5:04:18 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 5:04:18 PM
Vanadium	0.0022	J	0.0016	0.0100	mg/L	108314	1	12/31/2008 5:04:18 PM
Zinc	0.0041	J	0.0035	0.0200	mg/L	108314	1	12/31/2008 5:04:18 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	BRL		0.00001	0.00020	mg/L	108369	1	1/2/2009 3:42:29 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00007	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:21:47 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-031

Client Sample ID: KWTPI-WS01
Collection Date: 12/29/2008 3:15:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	10		1	5 mg/L		108315	1	12/31/2008 10:25:29 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	1.94		0.0110	0.100 mg/L		108312	1	12/31/2008 10:53:32 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 11:16:04 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 11:16:04 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 11:16:04 A
Barium	0.0192	J	0.0016	0.0200 mg/L		108312	1	12/31/2008 11:16:04 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 11:16:04 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 11:16:04 A
Calcium	14.2		0.0110	0.100 mg/L		108312	1	12/31/2008 11:16:04 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 11:16:04 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 11:16:04 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:16:04 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 11:16:04 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 11:16:04 A
Magnesium	3.67		0.0190	0.100 mg/L		108312	1	12/31/2008 11:16:04 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 11:16:04 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:16:04 A
Potassium	1.60		0.0300	0.500 mg/L		108312	1	12/31/2008 11:16:04 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 11:16:04 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 11:16:04 A
Sodium	8.36		0.0063	1.00 mg/L		108312	1	12/31/2008 11:16:04 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 11:16:04 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:16:04 A
Zinc	0.0337		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:16:04 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.423		0.0230	0.200 mg/L		108314	1	12/31/2008 5:14:14 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 5:14:14 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 5:14:14 PM
Barium	0.0258		0.0016	0.0200 mg/L		108314	1	12/31/2008 5:14:14 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 5:14:14 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 5:14:14 PM
Calcium	15.5		0.0110	0.100 mg/L		108314	1	12/31/2008 5:14:14 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 5:14:14 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 5:14:14 PM
Copper	0.0044	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 5:14:14 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-031

Client Sample ID: KWTPI-WS01
Collection Date: 12/29/2008 3:15:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.512		0.0360	0.100	mg/L	108314	1	12/31/2008 5:14:14 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 5:14:14 PM
Magnesium	4.34		0.0190	0.100	mg/L	108314	1	12/31/2008 5:14:14 PM
Manganese	0.106		0.0019	0.0150	mg/L	108314	1	12/31/2008 5:14:14 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:14:14 PM
Potassium	1.90		0.0300	0.500	mg/L	108314	1	12/31/2008 5:14:14 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 5:14:14 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 5:14:14 PM
Sodium	9.45		0.0063	1.00	mg/L	108314	1	12/31/2008 5:14:14 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 5:14:14 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 5:14:14 PM
Zinc	0.0712		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:14:14 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00014	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:44:24 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00041		0.00001	0.00020	mg/L	108319	1	12/31/2008 6:23:47 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-032

Client Sample ID: KWTDW-WS02
Collection Date: 12/29/2008 3:20:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	BRL		1	5 mg/L		108315	1	12/31/2008 10:25:59 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	2.12		0.0110	0.100 mg/L		108312	1	12/31/2008 10:55:17 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 11:20:24 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 11:20:24 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 11:20:24 A
Barium	0.0179	J	0.0016	0.0200 mg/L		108312	1	12/31/2008 11:20:24 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 11:20:24 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 11:20:24 A
Calcium	14.0		0.0110	0.100 mg/L		108312	1	12/31/2008 11:20:24 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 11:20:24 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 11:20:24 A
Copper	0.0037	J	0.0016	0.0100 mg/L		108312	1	12/31/2008 11:20:24 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 11:20:24 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 11:20:24 A
Magnesium	3.66		0.0190	0.100 mg/L		108312	1	12/31/2008 11:20:24 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 11:20:24 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:20:24 A
Potassium	1.64		0.0300	0.500 mg/L		108312	1	12/31/2008 11:20:24 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 11:20:24 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 11:20:24 A
Sodium	11.6		0.0063	1.00 mg/L		108312	1	12/31/2008 11:20:24 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 11:20:24 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:20:24 A
Zinc	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:20:24 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.0427	J	0.0230	0.200 mg/L		108314	1	12/31/2008 5:18:42 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 5:18:42 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 5:18:42 PM
Barium	0.0217		0.0016	0.0200 mg/L		108314	1	12/31/2008 5:18:42 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 5:18:42 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 5:18:42 PM
Calcium	15.8		0.0110	0.100 mg/L		108314	1	12/31/2008 5:18:42 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 5:18:42 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 5:18:42 PM
Copper	0.0055	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 5:18:42 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: KWTDW-WS02

Lab Order: 0812I49

Collection Date: 12/29/2008 3:20:00 PM

Project: TVA Kingston

Lab ID: 0812I49-032

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	BRL		0.0360	0.100	mg/L	108314	1	12/31/2008 5:18:42 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 5:18:42 PM
Magnesium	4.41		0.0190	0.100	mg/L	108314	1	12/31/2008 5:18:42 PM
Manganese	BRL		0.0019	0.0150	mg/L	108314	1	12/31/2008 5:18:42 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:18:42 PM
Potassium	1.89		0.0300	0.500	mg/L	108314	1	12/31/2008 5:18:42 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 5:18:42 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 5:18:42 PM
Sodium	16.1		0.0063	1.00	mg/L	108314	1	12/31/2008 5:18:42 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 5:18:42 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 5:18:42 PM
Zinc	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:18:42 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00003	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:46:23 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00008	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:25:43 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812149
Project: TVA Kingston
Lab ID: 0812149-033

Client Sample ID: RWWTI-WS04
Collection Date: 12/29/2008 4:30:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	8		1	5 mg/L		108315	1	12/31/2008 10:26:27 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	2.03		0.0110	0.100 mg/L		108312	1	12/31/2008 10:57:03 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	BRL		0.0230	0.200 mg/L		108312	1	12/31/2008 11:24:18 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 11:24:18 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 11:24:18 A
Barium	0.0251		0.0016	0.0200 mg/L		108312	1	12/31/2008 11:24:18 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 11:24:18 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 11:24:18 A
Calcium	17.9		0.0110	0.100 mg/L		108312	1	12/31/2008 11:24:18 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 11:24:18 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 11:24:18 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:24:18 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 11:24:18 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 11:24:18 A
Magnesium	5.87		0.0190	0.100 mg/L		108312	1	12/31/2008 11:24:18 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 11:24:18 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:24:18 A
Potassium	1.49		0.0300	0.500 mg/L		108312	1	12/31/2008 11:24:18 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 11:24:18 A
Silver	0.0003	J	0.0003	0.0100 mg/L		108312	1	12/31/2008 11:24:18 A
Sodium	6.37		0.0063	1.00 mg/L		108312	1	12/31/2008 11:24:18 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 11:24:18 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:24:18 A
Zinc	0.0633		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:24:18 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.149	J	0.0230	0.200 mg/L		108314	1	12/31/2008 5:22:13 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 5:22:13 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 5:22:13 PM
Barium	0.0316		0.0016	0.0200 mg/L		108314	1	12/31/2008 5:22:13 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 5:22:13 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 5:22:13 PM
Calcium	19.8		0.0110	0.100 mg/L		108314	1	12/31/2008 5:22:13 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 5:22:13 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 5:22:13 PM
Copper	0.0036	J	0.0016	0.0100 mg/L		108314	1	12/31/2008 5:22:13 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.**Client Sample ID:** RWWTI-WS04**Lab Order:** 0812I49**Collection Date:** 12/29/2008 4:30:00 PM**Project:** TVA Kingston**Lab ID:** 0812I49-033**Matrix:** SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	0.175		0.0360	0.100	mg/L	108314	1	12/31/2008 5:22:13 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 5:22:13 PM
Magnesium	6.87		0.0190	0.100	mg/L	108314	1	12/31/2008 5:22:13 PM
Manganese	0.0496		0.0019	0.0150	mg/L	108314	1	12/31/2008 5:22:13 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:22:13 PM
Potassium	1.77		0.0300	0.500	mg/L	108314	1	12/31/2008 5:22:13 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 5:22:13 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 5:22:13 PM
Sodium	7.27		0.0063	1.00	mg/L	108314	1	12/31/2008 5:22:13 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 5:22:13 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 5:22:13 PM
Zinc	0.0991		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:22:13 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00004	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:48:18 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00014	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:27:39 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-034

Client Sample ID: RWDW-WS03
Collection Date: 12/29/2008 4:35:00 PM

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
RESIDUE,SUSPENDED(TSS)(160.2/SM2540D)			E160.2	(E160.2)				Analyst: ML
Residue, Suspended (TSS)	BRL		1	5 mg/L		108315	1	12/31/2008 10:26:54 A
TOTAL SILICON			SW6010B	(SAMP_FILT)				Analyst: TAA
Silica (as Si)	2.14		0.0110	0.100 mg/L		108312	1	12/31/2008 10:58:51 A
METALS, DISSOLVED			SW6010B	(SAMP_FILT)				Analyst: BB
Aluminum	0.0235	J	0.0230	0.200 mg/L		108312	1	12/31/2008 11:28:02 A
Antimony	BRL		0.0063	0.0200 mg/L		108312	1	12/31/2008 11:28:02 A
Arsenic	BRL		0.0031	0.0500 mg/L		108312	1	12/31/2008 11:28:02 A
Barium	0.0248		0.0016	0.0200 mg/L		108312	1	12/31/2008 11:28:02 A
Beryllium	BRL		0.0022	0.0100 mg/L		108312	1	12/31/2008 11:28:02 A
Cadmium	BRL		0.0025	0.0050 mg/L		108312	1	12/31/2008 11:28:02 A
Calcium	17.9		0.0110	0.100 mg/L		108312	1	12/31/2008 11:28:02 A
Chromium	BRL		0.0075	0.0100 mg/L		108312	1	12/31/2008 11:28:02 A
Cobalt	BRL		0.0013	0.0200 mg/L		108312	1	12/31/2008 11:28:02 A
Copper	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:28:02 A
Iron	BRL		0.0360	0.100 mg/L		108312	1	12/31/2008 11:28:02 A
Lead	BRL		0.0038	0.0100 mg/L		108312	1	12/31/2008 11:28:02 A
Magnesium	5.87		0.0190	0.100 mg/L		108312	1	12/31/2008 11:28:02 A
Manganese	BRL		0.0019	0.0150 mg/L		108312	1	12/31/2008 11:28:02 A
Nickel	BRL		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:28:02 A
Potassium	1.64		0.0300	0.500 mg/L		108312	1	12/31/2008 11:28:02 A
Selenium	BRL		0.0060	0.0200 mg/L		108312	1	12/31/2008 11:28:02 A
Silver	BRL		0.0003	0.0100 mg/L		108312	1	12/31/2008 11:28:02 A
Sodium	7.30		0.0063	1.00 mg/L		108312	1	12/31/2008 11:28:02 A
Thallium	BRL		0.0041	0.0200 mg/L		108312	1	12/31/2008 11:28:02 A
Vanadium	BRL		0.0016	0.0100 mg/L		108312	1	12/31/2008 11:28:02 A
Zinc	0.0240		0.0035	0.0200 mg/L		108312	1	12/31/2008 11:28:02 A
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Aluminum	0.0326	J	0.0230	0.200 mg/L		108314	1	12/31/2008 5:25:43 PM
Antimony	BRL		0.0063	0.0200 mg/L		108314	1	12/31/2008 5:25:43 PM
Arsenic	BRL		0.0031	0.0500 mg/L		108314	1	12/31/2008 5:25:43 PM
Barium	0.0295		0.0016	0.0200 mg/L		108314	1	12/31/2008 5:25:43 PM
Beryllium	BRL		0.0022	0.0100 mg/L		108314	1	12/31/2008 5:25:43 PM
Cadmium	BRL		0.0025	0.0050 mg/L		108314	1	12/31/2008 5:25:43 PM
Calcium	20.0		0.0110	0.100 mg/L		108314	1	12/31/2008 5:25:43 PM
Chromium	BRL		0.0075	0.0100 mg/L		108314	1	12/31/2008 5:25:43 PM
Cobalt	BRL		0.0013	0.0200 mg/L		108314	1	12/31/2008 5:25:43 PM
Copper	BRL		0.0016	0.0100 mg/L		108314	1	12/31/2008 5:25:43 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: RWDW-WS03

Lab Order: 0812I49

Collection Date: 12/29/2008 4:35:00 PM

Project: TVA Kingston

Lab ID: 0812I49-034

Matrix: SURFACE WATER

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
METALS, TOTAL			SW6010B	(SW3010A)				Analyst: BB
Iron	BRL		0.0360	0.100	mg/L	108314	1	12/31/2008 5:25:43 PM
Lead	BRL		0.0038	0.0100	mg/L	108314	1	12/31/2008 5:25:43 PM
Magnesium	6.97		0.0190	0.100	mg/L	108314	1	12/31/2008 5:25:43 PM
Manganese	BRL		0.0019	0.0150	mg/L	108314	1	12/31/2008 5:25:43 PM
Nickel	BRL		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:25:43 PM
Potassium	1.92		0.0300	0.500	mg/L	108314	1	12/31/2008 5:25:43 PM
Selenium	BRL		0.0060	0.0200	mg/L	108314	1	12/31/2008 5:25:43 PM
Silver	BRL		0.0003	0.0100	mg/L	108314	1	12/31/2008 5:25:43 PM
Sodium	8.31		0.0063	1.00	mg/L	108314	1	12/31/2008 5:25:43 PM
Thallium	BRL		0.0041	0.0200	mg/L	108314	1	12/31/2008 5:25:43 PM
Vanadium	BRL		0.0016	0.0100	mg/L	108314	1	12/31/2008 5:25:43 PM
Zinc	0.0321		0.0035	0.0200	mg/L	108314	1	12/31/2008 5:25:43 PM
MERCURY, DISSOLVED			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00002	J	0.00001	0.00020	mg/L	108369	1	1/2/2009 3:50:14 PM
MERCURY, TOTAL			SW7470A	(SW7470)				Analyst: MAW
Mercury	0.00005	J	0.00001	0.00020	mg/L	108319	1	12/31/2008 6:29:34 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: TRIP BLANK1

Lab Order: 0812I49

Collection Date: 12/30/2008

Project: TVA Kingston

Lab ID: 0812I49-035

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5030B)	Analyst: PV			
Benzene	BRL		0.22	1.0	ug/L	108303	1	12/30/2008 6:37:00 PM
Toluene	BRL		0.26	1.0	ug/L	108303	1	12/30/2008 6:37:00 PM
Ethylbenzene	BRL		0.37	1.0	ug/L	108303	1	12/30/2008 6:37:00 PM
m,p-Xylene	BRL		0.60	1.0	ug/L	108303	1	12/30/2008 6:37:00 PM
o-Xylene	BRL		0.29	1.0	ug/L	108303	1	12/30/2008 6:37:00 PM
Surr: 4-Bromofluorobenzene	101		0	64.1-129	%REC	108303	1	12/30/2008 6:37:00 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.

Client Sample ID: TRIP BLANK2

Lab Order: 0812149

Collection Date: 12/30/2008

Project: TVA Kingston

Lab ID: 0812149-036

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5030B)				Analyst: PV
Benzene	BRL		0.22	1.0 ug/L		108303	1	12/30/2008 6:12:00 PM
Toluene	BRL		0.26	1.0 ug/L		108303	1	12/30/2008 6:12:00 PM
Ethylbenzene	BRL		0.37	1.0 ug/L		108303	1	12/30/2008 6:12:00 PM
m,p-Xylene	BRL		0.60	1.0 ug/L		108303	1	12/30/2008 6:12:00 PM
o-Xylene	BRL		0.29	1.0 ug/L		108303	1	12/30/2008 6:12:00 PM
Surr: 4-Bromofluorobenzene	98.0		0	64.1-129 %REC		108303	1	12/30/2008 6:12:00 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: 02-Jan-09

CLIENT: Tetra Tech EM Inc.
Lab Order: 0812I49
Project: TVA Kingston
Lab ID: 0812I49-037

Client Sample ID: TRIP BLANK3
Collection Date: 12/30/2008

Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Rpt. Limit	Units	BatchID	DF	Date Analyzed
VOLATILE ORGANICS			SW8260B	(SW5030B)				Analyst: PV
Benzene	BRL		0.22	1.0	ug/L	108303	1	12/30/2008 5:47:00 PM
Toluene	BRL		0.26	1.0	ug/L	108303	1	12/30/2008 5:47:00 PM
Ethylbenzene	BRL		0.37	1.0	ug/L	108303	1	12/30/2008 5:47:00 PM
m,p-Xylene	BRL		0.60	1.0	ug/L	108303	1	12/30/2008 5:47:00 PM
o-Xylene	BRL		0.29	1.0	ug/L	108303	1	12/30/2008 5:47:00 PM
Surr: 4-Bromofluorobenzene	100		0	64.1-129	%REC	108303	1	12/30/2008 5:47:00 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 QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.

Work Order: 0812149

Project: TVA Kingston

TestCode: 1311_HG

Sample ID: MB-108322	SampType: MBLK	TestCode: 1311_HG	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139962						
Client ID:	Batch ID: 108322	TestNo: SW1311/7470		Analysis Date: 12/31/2008	SeqNo: 2868331						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.0007737	0.00400	0	0	0	0	0	0	0	0	J

Sample ID: LCS-108322	SampType: LCS	TestCode: 1311_HG	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139962						
Client ID:	Batch ID: 108322	TestNo: SW1311/7470		Analysis Date: 12/31/2008	SeqNo: 2868332						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04206	0.00400	0.04	0.0007737	103	80	120	0	0	0	

Sample ID: 0812149-012BMS	SampType: MS	TestCode: 1311_HG	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139962						
Client ID: 081228-ERER-SS08	Batch ID: 108322	TestNo: SW1311/7470		Analysis Date: 12/31/2008	SeqNo: 2868334						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04217	0.00400	0.04	0.004126	95.1	80	120	0	0		

Sample ID: 0812149-012BMSD	SampType: MSD	TestCode: 1311_HG	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139962						
Client ID: 081228-ERER-SS08	Batch ID: 108322	TestNo: SW1311/7470		Analysis Date: 12/31/2008	SeqNo: 2868335						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.04202	0.00400	0.04	0.004126	94.7	80	120	0.04217	0.360		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: 0812149
Project: TVA Kingston

TestCode: 1311_M

Sample ID: MB-108325	SampType: MBLK	TestCode: 1311_M	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139935						
Client ID:	Batch ID: 108325	TestNo: SW1311/6010		Analysis Date: 12/31/2008	SeqNo: 2868189						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	BRL	0.250	0	0	0	0	0	0	0	0	
Barium	0.00778	0.500	0	0	0	0	0	0	0	0	J
Cadmium	BRL	0.0250	0	0	0	0	0	0	0	0	
Chromium	BRL	0.0500	0	0	0	0	0	0	0	0	
Lead	BRL	0.0500	0	0	0	0	0	0	0	0	
Selenium	BRL	0.100	0	0	0	0	0	0	0	0	
Silver	BRL	0.0250	0	0	0	0	0	0	0	0	

Sample ID: LCS-108325	SampType: LCS	TestCode: 1311_M	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139935						
Client ID:	Batch ID: 108325	TestNo: SW1311/6010		Analysis Date: 12/31/2008	SeqNo: 2868186						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5.015	0.250	5	0	100	85	115	0	0	0	
Barium	5	0.500	5	0.00778	99.8	80	120	0	0	0	
Cadmium	5.045	0.0250	5	0	101	85	115	0	0	0	
Chromium	5.16	0.0500	5	0	103	85	115	0	0	0	
Lead	5.06	0.0500	5	0	101	85	115	0	0	0	
Selenium	4.997	0.100	5	0	99.9	85	115	0	0	0	
Silver	0.5164	0.0250	0.5	0	103	85	115	0	0	0	

Sample ID: 0812149-012BMS	SampType: MS	TestCode: 1311_M	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139935						
Client ID: 081228-ERER-SS08	Batch ID: 108325	TestNo: SW1311/6010		Analysis Date: 12/31/2008	SeqNo: 2868191						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	5.235	0.250	5	0	105	50	150	0	0	0	
Barium	5.021	0.500	5	0.1777	96.9	50	150	0	0	0	
Cadmium	5.002	0.0250	5	0	100	50	150	0	0	0	
Chromium	5.022	0.0500	5	0	100	50	150	0	0	0	
Lead	5.004	0.0500	5	0	100	50	150	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		

ANALYTICAL QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.
Work Order: 0812149
Project: TVA Kingston

TestCode: 1311_M

Sample ID: 0812149-012BMS	SampType: MS	TestCode: 1311_M	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139935
Client ID: 081228-ERER-SS08	Batch ID: 108325	TestNo: SW1311/6010		Analysis Date: 12/31/2008	SeqNo: 2868191

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Selenium	5.26	0.100	5	0	105	50	150	0	0	0	
Silver	0.5044	0.0250	0.5	0	101	50	150	0	0	0	

Sample ID: 0812149-012BMSD	SampType: MSD	TestCode: 1311_M	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139935
Client ID: 081228-ERER-SS08	Batch ID: 108325	TestNo: SW1311/6010		Analysis Date: 12/31/2008	SeqNo: 2868192

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	5.21	0.250	5	0	104	50	150	5.235	0.466	30	
Barium	5.015	0.500	5	0.1777	96.7	50	150	5.021	0.135	30	
Cadmium	4.97	0.0250	5	0	99.4	50	150	5.002	0.845	30	
Chromium	4.981	0.0500	5	0	99.6	50	150	5.022	0.826	30	
Lead	4.965	0.0500	5	0	99.3	50	150	5.004	0.770	30	
Selenium	5.227	0.100	5	0	105	50	150	5.26	0.625	30	
Silver	0.5094	0.0250	0.5	0	102	50	150	0.5044	0.986	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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 160.2

Sample ID: MB-108315	SampType: MBLK	TestCode: 160.2	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139915						
Client ID:	Batch ID: 108315	TestNo: E160.2		Analysis Date: 12/31/2008	SeqNo: 2867576						
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: 0812149-005BDDUP	SampType: DUP	TestCode: 160.2	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139915						
Client ID: 081228-ERPL-WS01	Batch ID: 108315	TestNo: E160.2		Analysis Date: 12/31/2008	SeqNo: 2867578						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Residue, Suspended (TSS) 57 10.0 0 0 0 58 1.74 30

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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_SI_W

Sample ID: MB-108312	SampleType: MBLK	Batch ID: 108312	TestCode: 6010B_SI_W	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139887
Client ID:			TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867600
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Qual
Silica (as Si)	BRL	0.100	0	0	0 0	0 0

Sample ID: LCS-108312	SampleType: LCS	Batch ID: 108312	TestCode: 6010B_SI_W	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139887
Client ID:			TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867599
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Qual
Silica (as Si)	1.132	0.100	1	0	113 80	120 0

Sample ID: 0812149-028BMS	SampleType: MS	Batch ID: 108312	TestCode: 6010B_SI_W	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139887
Client ID: KIF-ERM4.0			TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867602
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Qual
Silica (as Si)	3.089	0.100	1	2.069	102 75	125 0

Sample ID: 0812149-028BMDS	SampleType: MSD	Batch ID: 108312	TestCode: 6010B_SI_W	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139887
Client ID: KIF-ERM4.0			TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867603
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val %RPD RPDLimit Qual
Silica (as Si)	3.04	0.100	1	2.069	97.1 75	125 3.089

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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_S

Sample ID: MB-108311	SampleType: MBLK	TestCode: 6010B_TAL_	Units: mg/Kg	Prep Date: 12/31/2008	RunNo: 139920						
Client ID:	Batch ID: 108311	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867914						
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	BRL	50.0	0	0	0	0	0	0	0	0	
Chromium	BRL	2.50	0	0	0	0	0	0	0	0	
Cobalt	BRL	2.50	0	0	0	0	0	0	0	0	J
Copper	0.08143	2.50	0	0	0	0	0	0	0	0	
Iron	BRL	50.0	0	0	0	0	0	0	0	0	
Lead	BRL	5.00	0	0	0	0	0	0	0	0	
Magnesium	BRL	50.0	0	0	0	0	0	0	0	0	
Manganese	0.1901	5.00	0	0	0	0	0	0	0	0	J
Nickel	BRL	5.00	0	0	0	0	0	0	0	0	J
Potassium	2.63	100	0	0	0	0	0	0	0	0	
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	7.542	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	BRL	5.00	0	0	0	0	0	0	0	0	

Sample ID: LCS-108311	SampleType: LCS	TestCode: 6010B_TAL_	Units: mg/Kg	Prep Date: 12/31/2008	RunNo: 139920						
Client ID:	Batch ID: 108311	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867913						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	474.4	50.0	500	0	94.9	80	120	0		0	
Antimony	45.35	5.00	50	0	90.7	80	120	0		0	

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.
Work Order: 0812149
Project: TVA Kingston

TestCode: 6010B_TAL_S

Sample ID: LCS-108311	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/Kg	Prep Date: 12/31/2008	RunNo: 139920						
Client ID:	Batch ID: 108311	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867913						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	46.46	5.00	50	0	92.9	80	120	0	0		
Barium	46.58	5.00	50	0	93.2	80	120	0	0		
Beryllium	45.65	2.50	50	0	91.3	80	120	0	0		
Cadmium	45.5	2.50	50	0	91	80	120	0	0		
Calcium	477.4	50.0	500	0	95.5	80	120	0	0		
Chromium	48.21	2.50	50	0	96.4	80	120	0	0		
Cobalt	46.96	2.50	50	0	93.9	80	120	0	0		
Copper	47.43	2.50	50	0.08143	94.7	80	120	0	0		
Iron	474.7	50.0	500	0	94.9	80	120	0	0		
Lead	46.36	5.00	50	0	92.7	80	120	0	0		
Magnesium	471.8	50.0	500	0	94.4	80	120	0	0		
Manganese	47	5.00	50	0.1901	93.6	80	120	0	0		
Nickel	46.45	5.00	50	0	92.9	80	120	0	0		
Potassium	458.2	100	500	2.63	91.1	80	120	0	0		
Selenium	44.31	5.00	50	0	88.6	80	120	0	0		
Silver	4.727	2.50	5	0	94.5	80	120	0	0		
Sodium	465.7	100	500	7.542	91.6	80	120	0	0		
Thallium	45.97	5.00	50	0	91.9	80	120	0	0		
Vanadium	47.48	5.00	50	0	95	80	120	0	0		
Zinc	45.95	5.00	50	0	91.9	80	120	0	0		

Sample ID: 0812149-012CMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/Kg-dry	Prep Date: 12/31/2008	RunNo: 139920						
Client ID: 081228-ERER-SS08	Batch ID: 108311	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867916						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	15180	58.8	588.5	13700	251	75	125	0	0		S
Antimony	34.84	5.88	58.85	0.6642	58.1	75	125	0	0		S
Arsenic	54.33	5.88	58.85	3.991	85.5	75	125	0	0		
Barium	96.14	5.88	58.85	44.29	88.1	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: 0812149
Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_S

Sample ID: 0812149-012CMS		SampType: MS		TestCode: 6010B_TAL_		Units: mg/Kg-dry		Prep Date: 12/31/2008		RunNo: 139920	
Client ID: 081228-ERER-SS08		Batch ID: 108311		TestNo: SW6010B				Analysis Date: 12/31/2008		SeqNo: 2867916	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	51.64	2.94	58.85	0.1169	87.6	75	125	0	0		
Cadmium	51.68	2.94	58.85	0	87.8	75	125	0	0		
Calcium	1841	58.8	588.5	1416	72.2	75	125	0	0		S
Chromium	71.65	2.94	58.85	18.7	90	75	125	0	0		
Cobalt	55.64	2.94	58.85	4.393	87.1	75	125	0	0		
Copper	64.09	2.94	58.85	8.739	94.1	75	125	0	0		
Lead	64.36	5.88	58.85	13.76	86	75	125	0	0		
Magnesium	1442	58.8	588.5	873.9	96.5	75	125	0	0		
Manganese	281.6	5.88	58.85	179.9	173	75	125	0	0		S
Nickel	58.02	5.88	58.85	6.683	87.2	75	125	0	0		
Potassium	1127	118	588.5	659.5	79.5	75	125	0	0		
Selenium	51	5.88	58.85	2.596	82.2	75	125	0	0		
Silver	5.324	2.94	5.885	0	90.5	75	125	0	0		
Sodium	563.2	118	588.5	48.16	87.5	75	125	0	0		
Thallium	47.54	5.88	58.85	0	80.8	75	125	0	0		
Vanadium	75.25	5.88	58.85	23.23	88.4	75	125	0	0		
Zinc	86.77	5.88	58.85	31.07	94.7	75	125	0	0		

Sample ID: 0812149-012CMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/Kg-dry	Prep Date: 12/31/2008	RunNo: 139920						
Client ID: 081228-ERER-SS08	Batch ID: 108311	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867998						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	22720	588	588.5	23140	-71.2	75	125	0	0		S

Sample ID: 0812149-012CMS	SampType: MSD	TestCode: 6010B_TAL_	Units: mg/Kg-dry	Prep Date: 12/31/2008	RunNo: 139920						
Client ID: 081228-ERER-SS08	Batch ID: 106311	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867917						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	14570	58.9	588.9	13700	147	75	125	15180	4.14	20	S

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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_S

Sample ID: 0812149-012CMSD	SampType: MSD	TestCode: 6010B_TAL_	Units: mg/Kg-dry	Prep Date: 12/31/2008	RunNo: 139920
Client ID: 081228-ERER-SS08	Batch ID: 108311	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867917

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	33.74	5.89	58.89	0.6642	56.2	75	125	34.84	3.22	20	S
Arsenic	56.09	5.89	58.89	3.991	88.5	75	125	54.33	3.20	20	
Barium	129	5.89	58.89	44.29	144	75	125	96.14	29.2	20	SR
Beryllium	53.07	2.94	58.89	0.1169	89.9	75	125	51.64	2.74	20	
Cadmium	52.34	2.94	58.89	0	88.9	75	125	51.68	1.28	20	
Calcium	1864	58.9	588.9	1416	76.1	75	125	1841	1.27	20	
Chromium	73.39	2.94	58.89	18.7	92.9	75	125	71.65	2.39	20	
Cobalt	56.44	2.94	58.89	4.393	88.4	75	125	55.64	1.42	20	
Copper	67.66	2.94	58.89	8.739	100	75	125	64.09	5.42	20	
Lead	65.88	5.89	58.89	13.76	88.5	75	125	64.36	2.33	20	
Magnesium	1352	58.9	588.9	873.9	81.3	75	125	1442	6.41	20	
Manganese	455.1	5.89	58.89	179.9	467	75	125	281.6	47.1	20	SR
Nickel	58.42	5.89	58.89	6.663	87.8	75	125	58.02	0.672	20	
Potassium	1222	118	588.9	659.5	95.5	75	125	1127	8.08	20	
Selenium	50.1	5.89	58.89	2.596	80.7	75	125	51	1.77	20	
Silver	5.566	2.94	5.889	0	94.5	75	125	5.324	4.44	20	
Sodium	612.4	118	588.9	48.16	95.8	75	125	563.2	8.36	20	
Thallium	47.46	5.89	58.89	0	80.6	75	125	47.54	0.163	20	
Vanadium	78.47	5.89	58.89	23.23	93.8	75	125	75.25	4.20	20	
Zinc	91.94	5.89	58.89	31.07	103	75	125	86.77	5.88	20	

Sample ID: 0812149-012CMSD	SampType: MSD	TestCode: 6010B_TAL_	Units: mg/Kg-dry	Prep Date: 12/31/2008	RunNo: 139920
Client ID: 081228-ERER-SS08	Batch ID: 108311	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867999

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	23540	589	588.9	23140	66.7	75	125	22720	3.51	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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_D

Sample ID: MB-108312	Sample Type: MBLK	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139916
Client ID:	Batch ID: 108312	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867541

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	0.0003368	0.0100	0	0	0	0	0	0	0	0	J
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-108312	Sample Type: LCS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139916
Client ID:	Batch ID: 108312	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867540

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9.757	0.200	10	0	97.6	80	120	0	0	0	
Antimony	0.998	0.0200	1	0	99.8	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: 0812149
Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_D

Sample ID: LCS-108312	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139916						
Client ID:	Batch ID: 108312	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867540						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.994	0.0500	1	0	99.4	80	120	0	0		
Barium	0.9719	0.0200	1	0	97.2	80	120	0	0		
Beryllium	0.9737	0.0100	1	0	97.4	80	120	0	0		
Cadmium	0.9835	0.00500	1	0	98.3	80	120	0	0		
Calcium	9.985	0.100	10	0	99.8	80	120	0	0		
Chromium	0.9723	0.0100	1	0	97.2	80	120	0	0		
Cobalt	0.9823	0.0200	1	0	98.2	80	120	0	0		
Copper	0.9613	0.0100	1	0	96.1	80	120	0	0		
Iron	9.79	0.100	10	0	97.9	80	120	0	0		
Lead	0.9809	0.0100	1	0	98.1	80	120	0	0		
Magnesium	9.813	0.100	10	0	98.1	80	120	0	0		
Manganese	0.9803	0.0150	1	0	98	80	120	0	0		
Nickel	0.985	0.0200	1	0	98.5	80	120	0	0		
Potassium	10.04	0.500	10	0	100	80	120	0	0		
Selenium	1	0.0200	1	0	100	80	120	0	0		
Silver	0.09905	0.0100	0.1	0.0003368	98.7	80	120	0	0		
Sodium	9.695	1.00	10	0	97	80	120	0	0		
Thallium	0.981	0.0200	1	0	98.1	80	120	0	0		
Vanadium	0.9775	0.0100	1	0	97.8	80	120	0	0		
Zinc	0.9869	0.0200	1	0	98.7	80	120	0	0		

Sample ID: 0612149-028BMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139916						
Client ID: KIF-ERM4.0	Batch ID: 108312	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867543						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9.822	0.200	10	0.04407	97.8	75	125	0	0		
Antimony	1.002	0.0200	1	0	100	75	125	0	0		
Arsenic	1.016	0.0500	1	0	102	75	125	0	0		
Barium	1.006	0.0200	1	0.02265	98.4	75	125	0	0		

Aluminum	9.822	0.200	10	0.04407	97.8	75	125	0	0		
Antimony	1.002	0.0200	1	0	100	75	125	0	0		
Arsenic	1.016	0.0500	1	0	102	75	125	0	0		
Barium	1.006	0.0200	1	0.02265	98.4	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		

ANALYTICAL QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.
Work Order: 0812149
Project: TVA Kingston

TestCode: 6010B_TAL_W_D

Sample ID: 0812149-028BMS	SampleType: MS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139916						
Client ID: KIF-ERM4.0	Batch ID: 108312	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867543						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	0.9929	0.0100	1	0	99.3	75	125	0	0		
Cadmium	1.001	0.00500	1	0	100	75	125	0	0		
Calcium	15.5	0.100	10	6.421	90.8	75	125	0	0		
Chromium	0.9744	0.0100	1	0	97.4	75	125	0	0		
Cobalt	0.9984	0.0200	1	0	99.8	75	125	0	0		
Copper	0.9861	0.0100	1	0	98.6	75	125	0	0		
Iron	9.976	0.100	10	0.06209	99.1	75	125	0	0		
Lead	0.9881	0.0100	1	0	98.8	75	125	0	0		
Magnesium	11.4	0.100	10	1.639	97.6	75	125	0	0		
Manganese	1.021	0.0150	1	0.02748	99.3	75	125	0	0		
Nickel	0.993	0.0200	1	0	99.3	75	125	0	0		
Potassium	11.18	0.500	10	1.162	100	75	125	0	0		
Selenium	1.014	0.0200	1	0	101	75	125	0	0		
Silver	0.1004	0.0100	0.1	0	100	75	125	0	0		
Sodium	11.57	1.00	10	2.021	95.5	75	125	0	0		
Thallium	0.9876	0.0200	1	0	98.8	75	125	0	0		
Vanadium	0.9923	0.0100	1	0	99.2	75	125	0	0		
Zinc	0.9927	0.0200	1	0	99.3	75	125	0	0		

Sample ID: 0812149-028BMSD	SampleType: MSD	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139916						
Client ID: KIF-ERM4.0	Batch ID: 108312	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2867544						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9.688	0.200	10	0.04407	96.4	75	125	9.822	1.38	20	
Antimony	0.9824	0.0200	1	0	98.2	75	125	1.002	1.96	20	
Arsenic	1.002	0.0500	1	0	100	75	125	1.016	1.31	20	
Barium	0.9928	0.0200	1	0.02265	97	75	125	1.006	1.34	20	
Beryllium	0.9782	0.0100	1	0	97.8	75	125	0.9929	1.49	20	
Cadmium	0.9826	0.00500	1	0	98.3	75	125	1.001	1.81	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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_D

Sample ID: 0812149-028BMSD		SampType: MSD		TestCode: 6010B_TAL_		Units: mg/L		Prep Date: 12/31/2008		RunNo: 139916			
Client ID: KIF-ERMA.0		Batch ID: 108312		TestNo: SW6010B		Analysis Date: 12/31/2008						SeqNo: 2887544	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Calcium	15.42	0.100	10	6.421	90	75	125	15.5	0.532	20			
Chromium	0.9608	0.0100	1	0	96.1	75	125	0.9744	1.41	20			
Cobalt	0.981	0.0200	1	0	98.1	75	125	0.9984	1.77	20			
Copper	0.9768	0.0100	1	0	97.7	75	125	0.9861	0.941	20			
Iron	9.825	0.100	10	0.06209	97.6	75	125	9.976	1.53	20			
Lead	0.9747	0.0100	1	0	97.5	75	125	0.9881	1.36	20			
Magnesium	11.25	0.100	10	1.639	96.1	75	125	11.4	1.36	20			
Manganese	1.006	0.0150	1	0.02748	97.9	75	125	1.021	1.46	20			
Nickel	0.9812	0.0200	1	0	98.1	75	125	0.993	1.20	20			
Potassium	11.05	0.500	10	1.162	98.9	75	125	11.18	1.21	20			
Selenium	0.9993	0.0200	1	0	99.9	75	125	1.014	1.45	20			
Silver	0.09863	0.0100	0.1	0	98.6	75	125	0.1004	1.81	20			
Sodium	11.4	1.00	10	2.021	93.8	75	125	11.57	1.45	20			
Thallium	0.9759	0.0200	1	0	97.6	75	125	0.9876	1.18	20			
Vanadium	0.9782	0.0100	1	0	97.8	75	125	0.9923	1.43	20			
Zinc	0.9773	0.0200	1	0	97.7	75	125	0.9927	1.57	20			

Qualifiers:	<	>	B	Analyte detected in the associated Method Blank
	Less than Result value	Greater than Result value	H	Holding times for preparation or analysis exceeded
	Below Reporting Limit	Estimated value above quantitation range	R	RPD outside limits due to matrix
	BRL	E		
	J	N		
	Estimated value detected below Reporting Limit	S		
	Rpt Lim			
	Reporting Limit			

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_T

Sample ID: MB-108314	SampType: MBLK	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139955						
Client ID:	Batch ID: 108314	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2868118						
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-108314	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139955						
Client ID:	Batch ID: 108314	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2868117						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aluminum	9.532	0.200	10	0	95.3	85	115	0	0	0	
Antimony	1.013	0.0200	1	0	101	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		

ANALYTICAL QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.
Work Order: 0812149
Project: TVA Kingston

TestCode: 6010B_TAL_W_T

Sample ID: LCS-108314	SampType: LCS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139955						
Client ID:	Batch ID: 108314	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2868117						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	1.02	0.0500	1	0	102	85	115	0	0		
Barium	1.016	0.0200	1	0	102	85	115	0	0		
Beryllium	1.023	0.0100	1	0	102	85	115	0	0		
Cadmium	1.019	0.00500	1	0	102	85	115	0	0		
Calcium	9.522	0.100	10	0	95.2	85	115	0	0		
Chromium	1.027	0.0100	1	0	103	85	115	0	0		
Cobalt	1.021	0.0200	1	0	102	85	115	0	0		
Copper	1.016	0.0100	1	0	102	85	115	0	0		
Iron	10.05	0.100	10	0	101	85	115	0	0		
Lead	1.006	0.0100	1	0	101	85	115	0	0		
Magnesium	10.18	0.100	10	0	102	85	115	0	0		
Manganese	1.022	0.0150	1	0	102	85	115	0	0		
Nickel	1.018	0.0200	1	0	102	85	115	0	0		
Potassium	9.935	0.500	10	0	99.4	85	115	0	0		
Selenium	1.013	0.0200	1	0	101	85	115	0	0		
Silver	0.1023	0.0100	0.1	0	102	85	115	0	0		
Sodium	9.803	1.00	10	0	98	85	115	0	0		
Thallium	0.9986	0.0200	1	0	99.9	85	115	0	0		
Vanadium	1.026	0.0100	1	0	103	85	115	0	0		
Zinc	1.015	0.0200	1	0	102	85	115	0	0		

Sample ID: 0812149-028AMS	SampType: MS	TestCode: 6010B_TAL_	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139955						
Client ID: KIF-ERM4.0	Batch ID: 108314	TestNo: SW6010B		Analysis Date: 12/31/2008	SeqNo: 2868120						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9.878	0.200	10	0.5824	93	75	125	0	0		
Antimony	1.005	0.0200	1	0	100	75	125	0	0		
Arsenic	1.02	0.0500	1	0	102	75	125	0	0		
Barium	1.035	0.0200	1	0.03254	100	75	125	0	0		

Aluminum	9.878	0.200	10	0.5824	93	75	125	0	0		
Antimony	1.005	0.0200	1	0	100	75	125	0	0		
Arsenic	1.02	0.0500	1	0	102	75	125	0	0		
Barium	1.035	0.0200	1	0.03254	100	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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_T

Sample ID: 0812149-028AMS		SampType: MS		TestCode: 6010B_TAL_		Units: mg/L		Prep Date: 12/31/2008		RunNo: 139955	
Client ID: KIF-ERM4.0		Batch ID: 108314		TestNo: SW6010B				Analysis Date: 12/31/2008		SeqNo: 2868120	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Beryllium	1.012	0.0100	1	0	101	75	125	0	0	0	
Cadmium	1.01	0.00500	1	0	101	75	125	0	0	0	
Calcium	15.93	0.100	10	6.919	90.1	75	125	0	0	0	
Chromium	1.017	0.0100	1	0	102	75	125	0	0	0	
Cobalt	1.008	0.0200	1	0	101	75	125	0	0	0	
Copper	1.002	0.0100	1	0	100	75	125	0	0	0	
Iron	10.4	0.100	10	0.3966	100	75	125	0	0	0	
Lead	0.9891	0.0100	1	0	98.9	75	125	0	0	0	
Magnesium	11.91	0.100	10	1.919	100	75	125	0	0	0	
Manganese	1.053	0.0150	1	0.04417	101	75	125	0	0	0	
Nickel	1.009	0.0200	1	0	101	75	125	0	0	0	
Potassium	11.14	0.500	10	1.406	97.3	75	125	0	0	0	
Selenium	1.008	0.0200	1	0	101	75	125	0	0	0	
Silver	0.1013	0.0100	0.1	0	101	75	125	0	0	0	
Sodium	12.88	1.00	10	2.091	108	75	125	0	0	0	
Thallium	0.98	0.0200	1	0	98	75	125	0	0	0	
Vanadium	1.014	0.0100	1	0	101	75	125	0	0	0	
Zinc	1.002	0.0200	1	0.004078	99.8	75	125	0	0	0	

Sample ID: 0812149-028AMS		SampType: MSD		TestCode: 6010B_TAL_		Units: mg/L		Prep Date: 12/31/2008		RunNo: 139955	
Client ID: KIF-ERM4.0		Batch ID: 108314		TestNo: SW6010B				Analysis Date: 12/31/2008		SeqNo: 2868121	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	9.905	0.200	10	0.5824	93.2	75	125	9.878	0.279	20	
Antimony	1.014	0.0200	1	0	101	75	125	1.005	0.899	20	
Arsenic	1.026	0.0500	1	0	103	75	125	1.02	0.546	20	
Barium	1.037	0.0200	1	0.03254	100	75	125	1.035	0.172	20	
Beryllium	1.019	0.0100	1	0	102	75	125	1.012	0.710	20	
Cadmium	1.016	0.00500	1	0	102	75	125	1.01	0.558	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 <td>H</td> <td>Holding times for preparation or analysis exceeded</td>	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit			N	Analyte not NELAC certified <td>R</td> <td>RPD outside limits due to matrix</td>	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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010B_TAL_W_T

Sample ID: 0612149-028AMSD		SampType: MSD		TestCode: 6010B_TAL_		Units: mg/L		Prep Date: 12/31/2008		RunNo: 139955			
Client ID: KIF-ERM4.0		Batch ID: 108314		TestNo: SW6010B		Analysis Date: 12/31/2008						SeqNo: 2668121	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Calcium	15.9	0.100	10	6.919	89.8	75	125	15.93	0.168	20			
Chromium	1.021	0.0100	1	0	102	75	125	1.017	0.318	20			
Cobalt	1.016	0.0200	1	0	102	75	125	1.008	0.703	20			
Copper	1.005	0.0100	1	0	101	75	125	1.002	0.346	20			
Iron	10.47	0.100	10	0.3966	101	75	125	10.4	0.682	20			
Lead	1.001	0.0100	1	0	100	75	125	0.9891	1.23	20			
Magnesium	11.95	0.100	10	1.919	100	75	125	11.91	0.319	20			
Manganese	1.061	0.0150	1	0.04417	102	75	125	1.053	0.737	20			
Nickel	1.011	0.0200	1	0	101	75	125	1.009	0.205	20			
Potassium	11.23	0.500	10	1.406	98.2	75	125	11.14	0.790	20			
Selenium	1.017	0.0200	1	0	102	75	125	1.008	0.860	20			
Silver	0.1021	0.0100	0.1	0	102	75	125	0.1013	0.704	20			
Sodium	12.88	1.00	10	2.091	108	75	125	12.88	0.0613	20			
Thallium	0.9874	0.0200	1	0	98.7	75	125	0.98	0.752	20			
Vanadium	1.018	0.0100	1	0	102	75	125	1.014	0.339	20			
Zinc	1.013	0.0200	1	0.004078	101	75	125	1.002	1.10	20			

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: Tetra Tech EM Inc.
 Work Order: 0812149
 Project: TVA Kingston

TestCode: 7470A_W_D

Sample ID: MB-108369	SampleType: MBLK	TestCode: 7470A_W_D	Units: mg/L	Prep Date: 1/2/2009	RunNo: 139994
Client ID:	Batch ID: 108369	TestNo: SW7470A		Analysis Date: 1/2/2009	SeqNo: 2869073
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.00005742	0.000200	0	0	0 0 0 0 J

Sample ID: LCS-108369	SampleType: LCS	TestCode: 7470A_W_D	Units: mg/L	Prep Date: 1/2/2009	RunNo: 139994
Client ID:	Batch ID: 108369	TestNo: SW7470A		Analysis Date: 1/2/2009	SeqNo: 2869074
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.005037	0.000200	0.005	0.00005742	99.6 85 115 0 0

Sample ID: 0812149-028BMS	SampleType: MS	TestCode: 7470A_W_D	Units: mg/L	Prep Date: 1/2/2009	RunNo: 139994
Client ID: KIF-ERM4.0	Batch ID: 108369	TestNo: SW7470A		Analysis Date: 1/2/2009	SeqNo: 2869076
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.005035	0.000200	0.005	0.0002061	96.6 70 130 0 0

Sample ID: 0812149-028BMSD	SampleType: MSD	TestCode: 7470A_W_D	Units: mg/L	Prep Date: 1/2/2009	RunNo: 139994
Client ID: KIF-ERM4.0	Batch ID: 108369	TestNo: SW7470A		Analysis Date: 1/2/2009	SeqNo: 2869077
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.005301	0.000200	0.005	0.0002061	102 70 130 0.005035 5.15 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	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	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: 0812149
Project: TVA Kingston

TestCode: 7470A_W_T

Sample ID: MB-108319	SampType: MBLK	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139929
Client ID:	Batch ID: 108319	TestNo: SW7470A		Analysis Date: 12/31/2008	SeqNo: 2868228
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.00006869	0.000200	0	0	0 0 0 0 J
Sample ID: MB-108433	SampType: MBLK	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 1/5/2009	RunNo: 140055
Client ID:	Batch ID: 108433	TestNo: SW7470A		Analysis Date: 1/5/2009	SeqNo: 2870466
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-108319	SampType: LCS	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139929
Client ID:	Batch ID: 108319	TestNo: SW7470A		Analysis Date: 12/31/2008	SeqNo: 2868228
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.005387	0.000200	0.005	0.00006869	106 85 115 0 0
Sample ID: LCS-108433	SampType: LCS	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 1/5/2009	RunNo: 140055
Client ID:	Batch ID: 108433	TestNo: SW7470A		Analysis Date: 1/5/2009	SeqNo: 2870467
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.004711	0.000200	0.005	0	94.2 85 115 0 0
Sample ID: 0812149-028AMS	SampType: MS	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139929
Client ID: KIF-ERM4.0	Batch ID: 108319	TestNo: SW7470A		Analysis Date: 12/31/2008	SeqNo: 2868231
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Mercury	0.005991	0.000200	0.005	0.00004938	119 70 130 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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 7470A_W_T

Sample ID: 0812149-008AMS	SampType: MS	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 1/5/2009	RunNo: 140055						
Client ID: 081228-ERER-WS02	Batch ID: 108433	TestNo: SW7470A		Analysis Date: 1/5/2009	SeqNo: 2870469						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004738	0.000200	0.005	0	94.8	70	130	0	0		

Sample ID: 0812149-028AMSD	SampType: MSD	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 12/31/2008	RunNo: 139929						
Client ID: KIF-ERM4.0	Batch ID: 108319	TestNo: SW7470A		Analysis Date: 12/31/2008	SeqNo: 2868232						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.005321	0.000200	0.005	0.00004938	105	70	130	0.005991	11.8	20	

Sample ID: 0812149-008AMSD	SampType: MSD	TestCode: 7470A_W_T	Units: mg/L	Prep Date: 1/5/2009	RunNo: 140055						
Client ID: 081228-ERER-WS02	Batch ID: 108433	TestNo: SW7470A		Analysis Date: 1/5/2009	SeqNo: 2870470						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004627	0.000200	0.005	0	92.5	70	130	0.004738	2.37	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: 0812149
 Project: TVA Kingston

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471A_S

Sample ID: MB-108309	SampType: MBLK	TestCode: 7471A_S	Units: mg/Kg	Prep Date: 12/31/2008	RunNo: 139959						
Client ID:	Batch ID: 108309	TestNo: SW7471A		Analysis Date: 12/31/2008	SeqNo: 2868139						
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-108309	SampType: LCS	TestCode: 7471A_S	Units: mg/Kg	Prep Date: 12/31/2008	RunNo: 139959						
Client ID:	Batch ID: 108309	TestNo: SW7471A		Analysis Date: 12/31/2008	SeqNo: 2868141						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.3405	0.100	0.4	0	85.1	80	120	0	0	0	

Sample ID: 0812149-012CMS	SampType: MS	TestCode: 7471A_S	Units: mg/Kg-dry	Prep Date: 12/31/2008	RunNo: 139959						
Client ID: 081228-ERER-SS08	Batch ID: 108309	TestNo: SW7471A		Analysis Date: 12/31/2008	SeqNo: 2868145						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.567	0.129	0.5149	0.06495	97.5	70	130	0	0	0	

Sample ID: 0812149-012CMSD	SampType: MSD	TestCode: 7471A_S	Units: mg/Kg-dry	Prep Date: 12/31/2008	RunNo: 139959						
Client ID: 081228-ERER-SS08	Batch ID: 108309	TestNo: SW7471A		Analysis Date: 12/31/2008	SeqNo: 2868147						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.5508	0.129	0.516	0.06495	94.2	70	130	0.567	2.90	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: 0812149
Project: TVA Kingston

TestCode: BTEX_S-MS

Sample ID: MIB-108323	SampType: MBLK	TestCode: BTEX_S-MS	Units: ug/Kg	Prep Date: 12/30/2008	RunNo: 139917						
Client ID:	Batch ID: 108323	TestNo: SW8260B		Analysis Date: 12/31/2008	SeqNo: 2867386						
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	46.06	0	50	0	92.1	56	145	0	0		

Sample ID: LCS-108323	SampType: LCS	TestCode: BTEX_S-MS	Units: ug/Kg	Prep Date: 12/30/2008	RunNo: 139927						
Client ID:	Batch ID: 108323	TestNo: SW8260B		Analysis Date: 12/31/2008	SeqNo: 2867660						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	52.8	1.0	50	0	106	60.4	136	0	0		
Ethylbenzene	57.55	1.0	50	0	115	66.3	139	0	0		
m,p-Xylene	115.3	1.0	100	0	115	63.8	139	0	0		
o-Xylene	58.14	1.0	50	0	116	63.8	139	0	0		
Toluene	54.28	1.0	50	0	109	60.9	138	0	0		
Surr: 4-Bromofluorobenzene	48.33	0	50	0	96.7	56	145	0	0		

Surf: 4-Bromofluorobenzene											
40.00											
<hr/>											
Sample ID: 0812149-012AMS		SampType: MS		TestCode: BTEX_S-MS		Units: ug/Kg-dry		Prep Date: 12/30/2008		RunNo: 139927	
Client ID: 081228-ERER-SS08		Batch ID: 108323		TestNo: SW8260B				Analysis Date: 12/31/2008		SeqNo: 2867688	
Analyte		Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit Qual
<hr/>											

Benzene	43.92	0.94	47.03	0	93.4	62.1	134	0	0		
Ethylbenzene	46.76	0.94	47.03	0	99.4	60.8	141	0	0		
m,p-Xylene	93.06	0.94	94.07	0	98.9	56.2	144	0	0		
o-Xylene	47.03	0.94	47.03	0	100	62.4	138	0	0		
Toluene	45.65	0.94	47.03	0	97.1	60.2	136	0	0		
Surr: 4-Bromofluorobenzene	46.04	0	47.03	0	97.9	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: 0812149
 Project: TVA Kingston

TestCode: BTEX_S-MS

Sample ID: 0812149-012AMSD		SampType: MSD	TestCode: BTEX_S-MS		Units: ug/Kg-dry	Prep Date: 12/30/2008		RunNo: 139917			
Client ID: 081228-ERER-SS08		Batch ID: 108323	TestNo: SW9280B			Analysis Date: 12/31/2008		SeqNo: 2867375			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.15	1.0	50.57	0	97.2	62.1	134	43.92	11.2	20	
Ethylbenzene	51.46	1.0	50.57	0	102	60.8	141	46.76	9.56	20	
m,p-Xylene	103.4	1.0	101.1	0	102	56.2	144	93.06	10.5	20	
o-Xylene	51.58	1.0	50.57	0	102	62.4	138	47.03	9.22	20	
Toluene	49.46	1.0	50.57	0	97.8	60.2	136	45.65	8.02	20	
Surr: 4-Bromofluorobenzene	49.46	0	50.57	0	97.8	56	145	46.04	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: 0812149
Project: TVA Kingston

TestCode: BTEX_W-MS

Project: I V A X A M I N G S O U L											
Sample ID: MB-108303	SampType: MBLK	TestCode: BTEX_W-MS	Units: ug/L	Prep Date: 12/30/2008	RunNo: 139888						
Client ID:	Batch ID: 108303	TestNo: SW8260B		Analysis Date: 12/30/2008	SeqNo: 2866826						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 4-Bromofluorobenzene		46.8	0	50	0	50.0					
Sample ID: LCS-108303	SampType: LCS	TestCode: BTEX_W-MS		Units: ug/L	Prep Date: 12/30/2008		RunNo: 139888				
Client ID:	Batch ID: 108303	TestNo: SW8260B		Analysis Date: 12/30/2008		SeqNo: 2866824					
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.95	1.0	50	0	91.9	65.4	134	0	0		
Ethylbenzene	46.57	1.0	50	0	93.1	69.9	132	0	0		
m,p-Xylene	96.65	1.0	100	0	96.6	69	134	0	0		
o-Xylene	48.94	1.0	50	0	97.9	70.2	133	0	0		
Toluene	46.31	1.0	50	0	92.6	70.6	133	0	0		
Surr: 4-Bromofluorobenzene	52.3	0	50	0	105	64.1	129	0	0		

Sample ID: 0812G21-004AMS	SampType: MS	TestCode: BTEX_W-MS	Units: ug/L	Prep Date: 12/30/2008	RunNo: 139888						
Client ID:	Batch ID: 108303	TestNo: SW8260B		Analysis Date: 12/30/2008	SeqNo: 2867237						
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2172	50	2500	0	86.9	52.6	141	0	0		
Ethylbenzene	2320	50	2500	0	92.8	59.7	138	0	0		
m,p-Xylene	4617	50	5000	0	92.3	55.8	140	0	0		
o-Xylene	2220	50	2500	0	88.8	60.7	138	0	0		
Toluene	2188	50	2500	0	87.5	53.1	147	0	0		
	2610	0	2500	0	104	64.1	129	0	0		
Surr: 4-Bromofluorobenzene											

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: 0812149

Project: TVA Kingston

TestCode: BTEX_W-MS

Sample ID: 0812G21-004AMSD		SampType: MSD		TestCode: BTEX_W-MS		Units: ug/L		Prep Date: 12/30/2008		RunNo: 139888	
Client ID:		Batch ID: 108303		TestNo: SW8260B				Analysis Date: 12/30/2008		SeqNo: 2867337	
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2218	50	2500	0	88.7	52.6	141	2172	2.07	20	
Ethylbenzene	2170	50	2500	0	86.8	59.7	138	2320	6.66	20	
m,p-Xylene	4332	50	5000	0	86.6	55.8	140	4617	6.36	20	
o-Xylene	2220	50	2500	0	88.8	60.7	138	2220	0	20	
Toluene	2216	50	2500	0	88.6	53.1	147	2188	1.27	20	
Surr: 4-Bromofluorobenzene	2478	0	2500	0	99.1	64.1	129	2610	0	0	

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		